ANNUAL REPORT OF THE CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

FOR

THE YEAR 1897.

PART II.

ON

THE BAROMETRIC DEPRESSIONS

IN

THE YEAR 1897.

PUBLISHED BY THE CENTRAL METEOROLOGICAL OBSERVATORY.

TOKIO.

1906.

EXCHANGE
DUPLICATE

The part II. of the Annual report of the Central Meteorological Observatory of Japan for the year 1897 consists of:—

1. *On the barometric depressions in the year 1897.*
2. *On the precipitation in the year 1897.*
3. *On the earthquakes in the year 1897.*
4. *Magnetic observations in the year 1897.*
   Observations on atmospheric electricity in the year 1897.

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ON THE BAROMETRIC DEPRESSIONS

IN

THE YEAR 1897.

INTRODUCTION.

The present report which is to be regarded as the continuation of the "*Memoirs on the areas of low and high pressure and gales*" hitherto published by this observatory, contains the result of investigations on typhoons, cyclones and secondary barometric depressions that passed over this country and the neighbouring seas during the year 1897.

The documents used in preparing this report are the manuscripts of tridaily weather charts of this observatory, and storm records sent from the provincial meteorological stations and naval semaphores. The meteorological logs taken on board the Imperial navies, merchant marines, and foreignv essels are used, in so far as they are available. The Bulletines published by the Zi-ka-wei Meteorological and Magnetic Observatory, Shanghai, China coast Meteorological registers printed by Hongkong Observatory and Meteorological Returns from the Imperial Korean Customs are also consulted.

The report consists of two parts, the first part containing analysis of the barometric depressions in each month, and the second, detailed descriptions of more important storms. In the analysis of the depressions their origins, motions and lowest barometric readings are concisely stated. But in case they were attended by unusual phenomena, such as severe storm, heavy rainfall, strong gales etc., more lengthy descriptions are given. The division of the cyclonic storms into typhoons, continental cyclones, barometric depressions, secondary depressions etc are, to some degrees, arbitrary, since we can not distinguish them in several instances. Hence, too much weight must not be attached to the classification given in the heading of the description of each cyclones. In the description of more important storms, brief statements of their appearence, progressive motions together with the meteorological conditions during their passages are given. Damages in, and loss of, property by stormy winds and inundations attending the atmospheric perturbations are also stated as far as possible.

Tracks of all the barometric depressions described in the text are fully exhibited on the charts in the end of the volume. Tracks of more important centres of depression are given in thick lines. Each of the small circles in the track indicates the position of the centre of depression at the time specified by the figures printed near it.

1. ANALYSIS OF THE BAROMETRIC DEPRESSION.

January.—During this month, 16 barometric depressions passed over the Empire and neighbouring seas. Of these, one was a typhoon, seven were continental cyclones and the remaining eight the depressions. Three of these centres of atmospheric perturbation came from China proper, two from Manchuria, two from Amur province, two from the Eastern sea of China, one from Southern Japan sea, and the remaining six from the Pacific ocean.

I. *Depression of the 3rd—the 4th.*—This barometric depression was first noticed in the Eastern sea of China on the morning of the 3rd. Quickly moving towards the northeast, it traversed Japan sea, and entered the Pacific, crossing Northern Hokkaido and the Southern Kuriles on the 4th. L. B. 752 mm.*

II. *Continental cyclone of the 5th—the 6th.*—This continental depression developed near the Lake Tonting in the Yangtsekiang valley. Rapidly advancing towards the northeast, the cyclone passed near Chinkiang at 10 am on the 5th, and north of Shanghai at 1 p.m. on the same day, and at last entered the Yellow sea. On the night of the 5th, the cyclonic centre passed over Southern Korea, causing a severe storm of wind and rain in the Tsushima straits. After traversing Southern Japan sea and Northeastern Japan, the depression entered the Pacific on the morning of the 6th. L. B. 748 mm.

III. *Depression of the 5th—the 6th.*—This depression was lying in the parallel of 30°N. and the 136th Meridian on the night of the 5th., and passed near the island of Hachijo on the morning of the 6th. L. B. Unknown.

IV. *Depression of the 7th.*—This depression was lying in the parallel of 30°N and the 138th Meridian on the early morning of the 7th. It passed towards the northeast, causing general rainfall over Southeastern Japan. L. B. Unknown.

V. *Depresssion of the 8th—the 9th.*—This depression appeared in the sea east of the Liukius on the night of the 8th, advanced towards the northeast, and passed south of the island of Hachijo on the night of the 9th, causing rain and snowfall on the Pacific coast. L. B. Unknown.

VI. *Depression of the 9th—the 11th.*—This depression developed in Southern

* L. B stands for the lowest barometer.

Japan sea near the island of Oki on the night of the 9th., and moved towards the northeast. After traversing the extreme north of Honshiu and Southern Hokkaido on the afternoon of the 10th, the centre of depression entered the Pacific, and passed off the East coast of Hokkaido on the early morning of the 11th. L. B. 758 mm.

VII *Depression of the 13th—the 14th.*—This depression appeared in the sea south of the Cape of Shiwomisaki on the night of the 13th, and progressed towards the northeast, passing south of the island of Hachijo on the afternoon of the 14th. L. B. Unknown.

VIII. *Continental cyclone of the 11th—the 15th.*—This continental depression appeared in Southern China, and passed north of Foochow on the 11th, and southwest of Ningpo on the 12th, It was lying off our South Coast on the early morning of the 15th, and it passed near the island of Hachijo on the night of the same day. This depression gradually became deepened, and developed a full cyclonic storm, so that it caused a severe storm in Japan proper. L. B. 745 mm.

IX. *Typhoon of the 17th—the 18th.*— This typhoon appeared in the sea south of the Liukius, and was found in the sea southwest of the Okinawashima islands, making its way towards the northeast on the 17th. The cyclonic centre travelled along our Pacific coast, and passed off the Boso peninsula on the night of the 18th. A rather severe storm was experienced on our Pacific coast during the passage of this typhoon. L. B. 745 mm.

X. *Continental cyclone of the 17th—the 18th.*—This came from Manchuria, and passed to the Pacific, traversing Northern Hokkaido on the 18th. L. B. 748 mm.

XI. *Continental cyclone of the 21st—the 22nd.*—This depression came from Amur district, and entered the sea of Okhotsk, passing through Soya strait on the night of the 22nd. Moving further towards the southeast, the cyclonic centre crossed the Southern Kuriles, and passed into the Pacific. L. B. 750 mm.

XII. *Depression of the 21st—the 22nd.*—This appeared in the sea north of the island of Ishigakijima on the early morning of the 21st, and moved towards the northeast, passing near the islands of Okinawajima at 4 p.m. of the same day. It passed south of the Boso peninsula on the morning of the 22nd. Since it travelled off coasts, its track is not definitely known. L. B. Unknown.

XIII. *Continental cyclone of the 23rd—the 24th.*—This continental cyclone appeared in Southern Sakhalien on the night of the 23rd, and entered the Pacific traversing Southern Kuriles on the afternoon of the 24th. L. B. Unknown.

XIV. *Continental cyclone of the 26th.*—This appeared near the southeast coast of Sakhalien, and moved towards the southeast. L. B. Unknown.

XV. *Depression of the 27th —the 28th.*—This depression appeared in the sea east of the Okinawajima, and moved towards the northeast, passing south of Hachijo island on the morning of the 28th. The track of this depression is not definitely known. L. B. Unknown.

XVI. *Continental depression of the 28th—the 29th.*—This depression developed a midway of Kingan and Foochow in Southern China on the 27th, and entered the Eastern sea of China on the 28th. The depression passed north of the island of Amami-Oshima on the 29th, and entered the Pacific. L. B. 756 mm.

February.—During this month, 11 barometric depressions passed over this country and neighbourring seas. Of these, 5 were continental depressions and the others, areas of low barometer. Most of them were shallow in depth, and caused no serious atmospheric disturbances. Two of these eleven depressions came from Manchuria, three from the sea south of the Liukius, one from Southern Korea, two from Japan sea, one from the Pacific and the remaining two from the Eastern sea of China. In only one instance, the segmentation of a barometric depression occurred, so that there were 12 depressions instead of 11 in all.

I. *Depressions of the 1st—the 2nd.*—On the last day of the preceding month, a barometric depression appeared in the sea south of the islands of Yaeyama, and moved northwards, gradually recurving towards the northeast. Arriving north of the island of Amami-Oshima, the depression broke up into two secondaries. One of them travelled along the Pacific coast, and the other along the coast of Japan sea. The former secondary depression passed south of the Cape of Shiomisaki about midnight of the 1st, and off the south east coast on the morning of the 2nd, while the latter passed northern Kiushiu on the afternoon of the 1st, and north of the Noto Peninsula on the early morning of the 2nd, and near Cape of Soya on the afternoon of the 2nd. These barometric depressions caused stormy weather all over this country, and high winds or gales on the coasts. General rainfall set in on the early morning of the 1st, and continued till the morning of the next day over Japan proper- In Hokkaido, a severe storm occurred on the 2nd. L. B. 740 mm.

II. *Depression of the 3rd—the 4th.*—This depression came from Korea, and appeared in the eastern part of Japan sea on the night of the 3rd. Traversing the northeastern district of Japan proper, it entered the Pacific on the morning of the 4th. L. B. 750 mm.

III. *Continental cyclone of the 4th.*—This cyclone came from Manchuria, and appeared near the west coast of Hokkaido on the afternoon of the 4th. It entered the Pacific traversing Hokkaido on the same day.

L. B. 748 mm.

IV. *Depression of the 8th—the 9th.*—The place where this depression first came into existence was quite unknown, It was lying near the Tsugaru strait on the night of the 8th. Moving towards the northeast, the depression passed near Kushiro in Hokkaido on the early morning of the 9th, and south of the Southern Kuriles on the afternoon of the 9th. L. B. 750 mm.

V. *Depression of the 10th.*—This appeared near the island of Hachijo on the afternoon of the 10th, and passed towards the northeast.

L. B. Unknown.

VI. *Continental depression of the 10th.*—This continental cyclone came from Manchuria, and appeared in Northern Japan sea on the afternoon of the 10th. On the night of the same day, the cyclone entered the Pacific, traversing Southern Hokkaido. L. B. 750 mm.

VII. *Depression of the 15th.*—The place where this depression originated is unknown. Our morning weather chart of the 15th gave a marked evidence of its existence in the Eastern sea of China. It entered the Pacific passing north of the island of Amami-Oshima about noon of the same day.

L. B. Unknown.

VIII. *Depression of the 15th.*—This depression developed in Southern Japan sea on the early morning of the 15th, and moved towards the northeast, gradually increasing in depth and energy. The depression passed the Tsugaru strait on the night of the 15th. L. B. 755 mm.

IX. *Depression of the 19th—the20th.*—This depression appeared in the Eastern sea of China on the early morning of the 19th, and moved towards the northeast. Passing north of Amami-Oshima on the afternoon of the 19th, the depression entered the Pacific. It passed south of the island of Hachijo on the 20th. L. B. Unknown.

X. *Depression of the 22nd—the 23rd.*—This area of low pressure was first noticed near the island of Liukius on the morning of the 22nd. Moving towards the northeast, it passed off our southeast-coast on the afternoon of the 23rd. The track of this depression is not definitely known. L. B. Unknown.

XI. *Depression of the 25th.*—This depression appeared near the island of Ishigaki-jima on the night of the 24th. Moving towards the northeast, it passed south of the island of Hachijo on the afternoon of the 25th.

L. B. Unknown.

March.—During this month, 15 barometric depressions passed over this country and the neighbouring seas. Of these 15 areas of low barometer, 10 were barometric depressions and 5 were continental cyclones. Three of these low areas came from Eastern sea, five from Southern China, one from Amur Province, two from the sea south of the islands of Liukius, one from Northern China, two from Japan sea, and the remaining one developed in Southern Japan.

I. *Depression of the 1st.*—This depression appeared in the Eastern sea of China on the afternoon of the 1st, and entered the Pacific passing near the island of Amami-Oshima on the same day. L. B. Unknown.

II. *Continental depression of the 1st—the 2nd.*—This came from Amur province, appeared near the west coast of Hokkaido on the night of the 1st, and moved towards the southeast. On the early morning of the 2nd, the depression entered the Pacific, traversing Southwestern Hokkaido. L. B. 760 mm.

III. *Depression of the 3rd—the 4th.*—This depression appeared in Northern Japan sea on the night of the 3rd, and moved towards the northeast, passing Southern Sakhalien on the morning of the 4th, and entered the sea of Okhotsk. L. B. Unknown.

IV. *Depression of the 3rd—the 5th.*—This area of low barometer appeared in the sea south of the island of Okinawa on the night of the 3rd, and entered the Eastern sea of China Moving towards the northeast, it entered the Pacific, passing near the island of Amami-Oshima on the morning of the 4th, and near the island of Hachijo on the early morning of the 5th. L. B. Unknown.

V. *Continental depression of the 6th—the 8th.*—This depression was first noticed in Southern Yellow sea on the night of the 6th, moved towards the northeast and entered the sea of Japan, passing over Southern Korea on the afternoon of the 7th. It crossed over our Northeastern district, becoming greatly reduced in depth and energy. L B. 755 mm.

VI. *Depression of the 8th.*—This depression developed off the south coast of Shikoku on the night of the 7th, and moved towards the east, passing near the island of Hachijo on the afternoon of the 8th. L. B. Unknown.

VII. *Continental depression of the 6th—the 10th.*—This area of low barometer was first noticed southeast of Chonking in the Upper valley of Yangtsekiang on the 5th. Moving towards the east, the depression passed south of Hangkow and Kiukiang on the morning of the 6th, and broke up into two secondary depressions near Lake Poyang on the same day. One of them passed north of Shanghai on the evening of the 6th, and entered Southern Yellow

sea. Its subsequent passage and movement are described in No. V. The other passed south of Shanghai about noon of the 8th, causing strong winds or gales on the coast of Southern China. On the early morning of the 9th, it was in the Eastern sea of China, making its way towards the east. On the morning of the 9th, the cyclonic centre crossed Southern Kiushiu and entered the Pacific. It passed south of the Cape of Shiomisaki on the night of the 9th, and landed on the southeast coast of Japan proper. The depression again entered the Pacific, passing south of Tokio and north of Choshi on the early morning of the 10th. It travelled along our east coast, and passed towards the Southern Kuriles, touching Nemuro on the night of the 10th. L. B. 740 mm.

VIII. *Depression of the 11th.*—This depression was first noticed in the Eastern sea of China on the night of the 11th, and passed towards the east, and entered the Pacific. L. B. Unknown.

IX. *Continental depression of the 14th—the 16th.*—This depression was first noticed west of Singan in the interior of Chinese Empire on the 14th, and rapidly moved towards the East. The cyclonic centre arrived west of Chefoo, and thence it crossed the Yellow sea and Northern Korea. On the early morning of the 16th, it passed south of Wladiostok, moving eastwards. It entered the sea of Okhotsk, traversing Northern Hokkaido on the evening of the 16th. The depression was a shallow and feeble one when it was first noticed, but it became considerably deepened as it travelled eastwards, and caused a severe storm over Hokkaido on the 16th. L. B. 748 mm.

X. *Depression of the 19th - the 20th*—This depression developed near Foochow on the morning of the 18th, and moved towards the northeast, gradually becoming deeper. On the morning of the 19th it was lying north of the Liukius, moved towards the east, passing near the island of Tanegashima on the afternoon of the 19th, and near the island of Hachijo on the early morning of the 20th. L. B. 755 mm.

XI. *Continental depression of the 21st—the 26th.*—This depression was first noticed southwest of Chonking in the Upper Yangtsekiang valley on the 21st. Moving towards the east, the cyclonic centre passed south of Kiukiang on the 22nd, south of Shanghai on the 23rd, and entered the Eastern sea of China on the early morning of the 24th. On the afternoon of the 25th, the depression passed north of the island of Amami-Oshima and entered the Pacific. L. B. 760 mm.

XII. *Depression of the 25th—the 27th.*—This depression was first noticed in the Eastern sea of China on the night of the 25th, and moved towards the north-

east, passing through the strait of Osumi (Van Diemen strait) on the evening of the 26th. It moved along the Pacific coast of the Empire of Japan, passing near the island of Hachijo on the evening of the 27th. L. B 760 mm.

XIII. *Depression of the 27th—the 28th.*—This depression was first noticed a midway of Foochow and Amoy on the early morning of the 27th, moved towards ENE, and passed near the island of Yakushima on the night of the 27th. The depression entered the Pacific, and passed near the island of Hachijo on the 28th. L. B. Unknown.

XIV. *Depression of the 29th—the 30th.*—This depression appeared in the sea south of Southern Liukius on the early morning of the 29th, and entered the Eastern sea of China. This depression traversed Southern Kiushiu on the early morning of the 30th, and moved along our Pacific coast as far as the Cape Enubosaki in Southeastern Japan. L. B. 755 mm.

XV. *Depression of the 30th.*—This depression developed in Southern Japan sea on the early morning of the 30th. It progressed towards the northeast, and entered the sea of Okhotsk, traversing northern Hokkaido on the night of the same day. L. B. 750 mm.

April.—The number of barometric depressions that passed over and near this country was 14, 7 of them being depressions, 5 the continental cyclones and the remaining 2 local secondary depressions. Of these 14 low areas, 3 came from the Eastern sea, 4 from Northern China, 2 from the Yangtse valley, one from the sea south of Liukius, one from Pacific, and one developed in Western Japan, and two in Central Japan.

I. *Depression of the 1st—the 3rd.*—This depression was noticed in the Eastern sea fo China on the early morning of the 1st, and moved towards the northeast and entered the Pacific passing near the island of Yakushima on the night of the 1st. It travelled along our Pacific coast, passing south of the Cape of Shiomisaki on the afternoon of the 2nd, and off the Southeast coast on the early morning of the 3rd, The barometer fell to 746.1 mm at Nagatsuro at 6am on the 3rd, and to 745.8 mm at Choshi meteorological station at 7 am. on the same day. I. B. 744 mm.

II. *Depression of the 1st—the 2nd.*—This depression developed near Nagasaki in Western Japan on the night of the 1st, and entered the sea of Japan, moving towards the northeast. It passed north of the Cape of Noto on the night of the 2nd, and traversed Northeastern Japan on the 4th. L. B. 745 mm.

III. *Secondary depression of the 3rd.*—The secondary depression developed near Kofu in Central Japan on the morning of the 3rd, and moved south-

eastwards, passing near Oshima on the night of the same day. L. B. 750 mm.

IV *Secondary depression of the 4th.*—The secondary depression developed near Kofu in Central Japan on the afternoon of the 4th, and entered the Pacific, moving southeastwards. L. B. 759 mm.

V. *Continental cyclone of the 4th—the 5th.*—This depression was first noticed south of Shangtung promontory on the 4th, and made its way towards the northeast. It crossed the Yellow sea, Northern Korea and the sea of Japan, and thence it passed to the sea of Okhotsk. L. B. Unknown.

VI. *Depression of the 6th—the 7th.*—This depression was noticed in the Eastern sea of China on the early morning of the 6th, and entered the Pacific moving towards the east on the afternoon of the same day. It passed south of the island of Hachijo on the early morning of the 7th. L. B. Unknown.

VII. *Continental depression of the 7th—the 10th.*—This continental depression was first noticed south of Kiukiang in lower Yangtse valley on the 7th. It passed between Chinkiang and Shanghai on the 8th. After entering the Eastern sea of the China, the depression rapidly moved towards the East, and passed near Nagasaki on the night of the 8th. Gradually turning its course, the cyclonic centre entered the sea of Japan, and passed to the Pacific, visiting Hakodate on the morning of the 10th, and passing south of the Cape of Erimosaki on the afternoon of the same day. This continental cyclone became considerably developed as it moved towards this country, and caused a severe storm in Hokkaido. L. B. 735 mm.

VIII. *Depression of the 8th—the 9th.*—This depression appeared in the Eastern sea of China on the afternoon of the 8th, and made its way towards the northeast, passing near Amami-Oshima island on the night of the 8th. It travelled along our Pacific coast, passing near Tokio on the evening of the 9th. Abundant rain fell, and gales prevailed around the centre. The barometer fell to 743.2 mm at Choshi at 6,30 p m. on the 9th. L. B. 743 mm.

IX. *Continental depression of the 14th.*—This depression came from Northern China, and appeared in Northwestern Japan sea on the early morning of the 14th. It entered the Pacific traversing Hokkaido on the night of the 14th. L. B. 760 mm.

X. *Continental depression of the 12th—16th.*—This depression was first noticed near Kiukiang in the Yangtse valley on the 12th, and slowly moved towards the east, arriving near Nagasaki on the morning of the 15th. It traversed the Inland sea district and Central Japan, and entered the Pacific on the early morning of the 16th. A number of secondary centres of depres-

sion were developed within the area of low barometer, as this continental depression was passing through Central Japan, L. B. 755 mm.

XI. *Depression of the 18th—the 20th.*—This depression appeared in the sea south of the island of Okinawa on the night of the 18th. Moving towards the northeast, the low area passed south of the island of Hachijo on the morning of the 20th. L. B. Unknown.

XII. *Continental cyclone of the 21st—the 22nd.*—This continental cyclone appeared in Northern China, and crossed Northern Korea on the morning of the 21st. After traversing Northern Japan sea, the cyclonic centre entered the sea of Okhotsk on the 22nd. The track of this storm lying over the continent is not definitely known. L. B. Unknown.

XIII. *Depression of the 24th—the 25th.*—This depression appeared in the Yellow sea on the 24th, moved southeastwards, and crossed Southern Korea. The low area crossed Central Japan and entered the Pacific. It was lying off our southeast coast on the afternoon of the 25th. L. B. 753 mm.

XIV. *Depression of the 27th.*—This depression appeared in the sea south of the Cape of Shiomisaki on the night of the 27th, and moved towards the northeast, passing south of the island of Hachijo. L. B. Unknown.

May.—During the present month, eighteen barometric depressions, of which eight were continental cyclones; eight, area of low barometer; and the remaining two, secondary depressions, passed over this country and neighbouring seas.

I. *Depression of the 1st—the 4th.*—This depression appeared in the Eastern sea of China on the night of the 1st, and moved towards the northeast, passing near the island of Yakushima on the night of the 2nd. It appeared near the promontory of Shiomisaki on the afternoon of the 3rd, and landed near Hamamatsu about midnight of the 3rd, and entered again the Pacific, traversing southeastern Japan on the 4th. This barometric depression caused a threatening weather and plentiful rainfall on our Pacific coast. L. B. 736 mm.

II. *Depression of the 4th—the 5th* —This depression was first noticed in Northern Japan sea on the afternoon of the 4th, and moved towards the northeast, traversing Southern Sakhalien on the afternoon of the 5th. The track of this storm is not definitely known. L. B. Unknown.

III. *Continental cyclone of the 7th—the 8th.*—This depression appeared in the Yangtsekiang valley on the 6th, and moved towards the northwest. It traversed Japan proper, passing our Northern Kiushiu on the morning of the 7th, and over the southeast coast on the morning of the 8th. L. B. 748 mm.

IV. *Depression of the 7th.*—This depression developed in the Bay of Wakasa on

the afternoon of the 7th. Moving towards the northeast, the low area entered the Pacific, traversing the strait of Tsugaru on the night of the 7th. L. B. 740 mm.

V. *Continental depression of the 10th—the 11th.*—This depression came from Southern China on the afternoon of the 10th, and passed to the Pacific traversing Southern Kiushiu on the 11th. L. B. 755 mm.

VI. *Secondary depression of the 11th.*—This depression appeared off Western Kiushiu on the early morning of the 11th, and passed towards the sea of Japan, traversing Northern Kiushiu on the same day. The depression was filled up in Southern Japan sea L. B. 754 mm.

VII. *Continental depression of the 14th—the 15th.*—This depression appeared in Central China, and passed north of Shanghai about midnight of the 14th. After entering the Yellow sea, the low area became greatly increased in depth and energy. It traversed Southern Korea on the afternoon of the 15th, crossed Japan sea, and finally passed to the sea of Okhotsk on the 16th. A severe storm occurred on coast of Japan sea and in Southern Korea on the 15th, during the passage of this depression. L. B. 748 mm.

VIII. *Depression of the 15th—the 16th.*—This depression appeared in Southern Japan sea on the morning of the 15th, and moved towards the northeast. Traversing Northeastern districts of Japan proper on the night of the 15th, the cyclonic centre entered the Pacific. On the early morning of the 16th, it passed south of Nemuro, Hokkaido. L. B. 748 mm.

IX. *Depression of the 17th—the 19th.*—This area of low barometer appeared off Southwestern Kiushiu on the night of the 17th, and moved northeastwards along the coast of Japan sea, passing north of Noto peninsula on the morning of the 19th. It passed into the Pacific, traversing Northeastern Japan on the same day. The track of this depression, however, is not definitely known. L. B. 751 mm

X. *Depression of the 18th—the 20th.*—This depression appeared in the Eastern sea of China on the early morning of the 18th, and moved towards the east along our Pacific coast, passing near the island of Hachijo on the early morning of the 20th. L. B. Unknown.

XI. *Continental depression of the 20th.*—This depression came from Northern Manchuria, and traversed Hokkaido on the 20th. It entered the Pacific on the same day. L. B. 745 mm.

XII. *Depression of the 20th.*—This depression appeared in the sea north of Noto

peninsula on the 20th, moved towards northeast, and finally passed to the Pacific on the 21st. L. B. 750 mm.

XIII. *Continental cyclone of the 20th—the 21st.*—This cyclone appeared near Wladiostok on the morning of the 20th, and passed to the Okhotsk, traversing Northern Japan sea and Northern Hokkaido on the 21st. The track of this depression is not definitely known. L. B. 748 mm.

XIV. *Secondary depression of the 21st.*—This depression developed in Central Japan on the afternoon of the 21st, and entered the Pacific, moving towards the southeast. L. B. 748 mm.

XV. *Continental depression of the 23rd.*—This depression came from Southern China, and appeared in the Eastern sea of China on the afternoon of the 23rd. It travelled along our Pacific coast, passing near the island of Hachijo on the 24th. L. B. 750 mm.

XVI. *Continental depression of the 24th.*—This depression came from Northern Korea on the 24th, moved towards the northeast, and disappeared in Northern Japan sea. The track of this depression is not definitely known. L. B. Unknown.

XVII. *Depression of the 27th—the 28th*—This depression appeared in the Gulf of Korea on the afternoon of the 27th, moved towards the northeast and passed towards the Soya strait on the night of the 28th. L. B. Unknown.

XVIII. *Continental depression of the 28th—the 29th.*—This depression came from Southern China, and appeared in the Eastern sea of China on the night of the 28th. It entered the Japan sea through the straits of Tsushima about the noon of the 29th, and passed over Japan sea and Southern Sakhalien. L. B. 745 mm.

June.—During the present month, fifteen barometric depressions, of which one was a continental cyclone; eleven were areas of low barometer; and three, secondary depressions, passed over this country and neighbouring seas.

I. *Continental depression of the 2nd—the 3rd.*—This depression appeared near the Shangtung promontory on the 2nd, moved towards the east, and passed over Central Korea on the night of the 2nd. The depression entered the Japan sea, and disappeared north of the island of Sado on the night of the 3rd. L. B. Unknown.

II. *Depression of the 2nd.*—This depression appeared near the coast of Southern China on the morning of the 2nd, and moved towards ENE, and traversed the Eastern sea of China. It entered the Pacific, and moved southeastwards. L. B. Unknown.

III. *Depression of the 4th—the 7th.*—This depression appeared north of Formosa on the early morning of the 4th, moved northeast, and entered Japan sea, passing through the straits of Tsushima on the night of the 4th. This depression remained almost stationary in the sea north of the island of Sado from the 6th to the 7th, and finally filled up there. L. B. 745 mm,

IV. *Depression of the 5th—the 6th.*—This depression developed in Southeastern Kiushiu on the early morning of the 5th, moved towards Southeast, and passed to the Pacific on the 6th. L. B. 748 mm.

V. *Secondary depression of the 6th,*—This depression developed in Central Japan on the afternoon of the 6th, moved southeastwards, and entered the Pacific. L. B. 747 mm.

VI. *Depression of the 10th—the 15th.*—This depression appeared in the sea south east of Formosa on the night of the 10th, moved northeastwards, and entered the Eastern sea of China. Slowly recurving towards the east, the depression passed through the Van Diemen strait, and entered the Pacific, It passed near the island of Hachijo on the early morning of the 15th. The track of this depression is not definitely known. L. B. Unknown.

VII. *Depression of the 12th—the 15th.*—This depression appeared in Southern Japan sea on the night of the 12th, moved in the northeasterly direction, and entered the sea of Okhotsk, traversing Hokkaido on the 15th. L. B. 752 mm.

VIII. *Depression of the 15th—the 16th.*—This depression appeared in the Pacific, south of the Cape of Shiomisaki on the afternoon of the 15th, and moved northeastwards, passing near the island of Hachijo on the early morning of the 16th. L. B. Unknown.

IX. *Depression of the 16th—the 17th.*—This developed in the eastern inland sea district on the afternoon of the 16th, moved towards the southeast and entered the Pacific on the early morning of the 17th. This secondary depression caused thunder-storms and heavy rainfall along its track. L. B. 750 mm.

X. *Secondary depression of the 16th,*—This depression developed in the plateau in Central Japan on the afternoon of the 16th, moved towards the northeast, and entered the sea of Japan on the night of the 16th. This secondary depression filled up near the island of Sado. L. B. 750 mm.

XI. *Depression of the 17th—the 19th.*—This depression appeared near Southeastern Formosa on the early morning of the 17th, moved northeastwards, gradually recurving towards the east, and entered the Pacific, passing north of

Amami-Oshima on the early morning of the 19th. L. B. 750 mm.

XII. *Depression of the 19th—the 20th.*—This depression came from Northern Korea, and appeared in Central Japan sea on the afternoon of the 19th. It entered the sea of Okhotsk on the 20th. The track of this cyclone is not definitely known. L. B, Unknown.

XIII. *Depression of the 20th—the 21st.*—This depression appeared near the island of Ishigakijima on the night of the 20th, moved northeastwards, gradually curving towards the east. It entered the Pacific, passing north of the islands of Okinawajima on the night of the 21st. L. B. 745 mm.

XIV. *Secondary depression of the 22nd.*—This depression developed near Kofu in Central Japan on the afternoon of the 22nd, and entered the Pacific, moving southeastwards. L. B. 748 mm.

XV. *Depression of the 25th—the 30th.*—This barometric depression appeared in the sea south of the island of Ishigakijima on the early morning of the 25th, moved northeastwards, and entered the Eastern sea of China, passing near the island of Ishigakijima on the afternoon of the same day. It remained almost stationary in the sea from the 26th to the 27th. This retardation in its progressive motion was probably caused by the influence of another barometric depression which followed the present cyclone. On the night of the 28th, the depression was lying southeast of the island of Okinawajima. On the early morning of the 29th, it drew near the island of Amami-Oshima, causing a decided fall of the barometer in the island. The minimum barometric height of 747.4 mm. was observed at 7 a.m. on the same day. We give below an extract of the meteorological observation at the Oshima meteorological station during the passage of the depression :—

Date.	Hour.	Barometer.	Wind-direct.	Wind-velocity.	Rainfall.	Weather.
28th	11p.	749.5 mm	SE	7.0 m/s	1.0 mm	rain
„	mn.	49.0	SE	6.5	1.0	„
29th	1a	48.3	SE	6.9	1.5	„
„	2a	48.4	W	4.3	18.8	heavy rain
„	3a	48.0	W	1.9	17.1	„
„	4a	48.0	W	1.9	0.2	rain.
„	5a	47.7	W	1.3	0.1	cloudy.
„	6a	47.6	W	1.2	—	„
„	7a	47.4	W	1.5	—	„
„	8a	47.5	W	1.1	—	clear.
„	9a	48.0	W	2.7	—	cloudy.
„	10a	47.9	W	2.7	—	fair.
„	11a	49.3	W	8.3	0.0	rain
„	Noon.	48.4	W	11.5	1.2	cloudy.

Passing near the island of Amami-Oshima, this barometric depression entered the Pacific, and moved towards the northeast. As the consequence of its visitations, a general rainfall occurred in Japan proper on the 30th.

July.—During the present month, fourteen barometric depressions passed over the Empire and neighbouring seas. Of these, two were typhoons ; five were continental depressions ; and seven, areas of low barometer. The two typhoons came from the sea south of Liukius and Formosa, and entered the continent. Two of the continental depressions came from Manchuria, two from Northern China and the remaining one from the Yangtse Valley.

I. *Depression of the 1st—the 2nd.*—This depression appeared in the sea south of the island of Okinawajima on the early morning of the 1st, and moved northeastwards, passing near the island of Hachijo on the night of the second. This barometric depression caused a general rainfall and high wind on our southeast coast. L. B. Unknown.

II. *Depression of the 2nd—the 3rd.*—This depression developed in Central Japan sea on the afternoon of the 2nd, moved northeastwards, and entered the sea of Okhotsk, traversing Northern Hokkaido on the 3rd. L. B. Unknown

III. *Typhoon of June 30th—July 7th.*—This typhoon which was first noticed in the sea east of the Philipines passed north of Luzon about noon of June 30th. It entered the continent, crossing Formosa channel and landing near Swatow. It passed west of Shanghai on the 6th, over Shangtung on the 7th, and Northern Korea on the same day.. Owing to the sparseness of meteorological data in the continent during the passage of the storm, its track is not definitely known. L. B. Unknown.

IV. *Depression of the 7th.*—This depression developed near the west coast of Japan on the early morning of the 7th, moved towards the east and entered the Pacific, traversing Japan proper on the same day. General rainfall occurred in Central and Eastern Japan during the passage of the low area. L. B. 758 mm.

V. *Continental depression of the 8th—the 9th.*—This depression came from Central Korea, appeared in Southern Japan sea on the afternoon of the 8th, and moved towards the east. Gradually changing its course towards the northeast, the depression passed near Akita on the morning of the 9th, and traversed Eastern Hokkaido on the 9th. L. B. 754 mm.

VI. *Continental depression of the 11th—the 12th.*—This depression came from Southern Manchuria, appeared near Wladiostok on the night of the 11th, and entered the sea of Okhotsk, traversing Northern Japan sea on the 12th. L. B. Unknown.

VII. *Continental depression of the 13th.*—This depression came from Northern China, appeared in Northern Korea on the morning of the 13th, and moved towards the northeast. The depression passed into the sea of Okohtsk on the same day. L. B. 748 mm.

VIII. *Depression of the 15th.*—This depression developed near the west coast of Japan proper on the morning of the 15th, moved towards the northeast, and passed to the Gulf of Tartar. L. B. 750 mm.

IX. *Depression of the 15th—the 16th.*—This depression appeared off our south coast on the night of the 15th and, passed towards the east on the 16th, causing a heavy rainfall in Southern Japan. On the night of the 15th, a torrential downpour of rain occurred in Ki-i peninsula. L. B. Unknown.

X. *Depression of the 16th—the 18th.*—This depression came from the Eastern sea, appeared near the west coast of Japan on the night of the 16th, moved towards the northeast, and passed into the Gulf of Tartar on the 18th. L. B. 748 mm.

XI. *Continental depression of the 19th—the 20th.*—This continental depression came from the lower Yangtse-kiang valley, appeared in Southern Yellow sea on the 19th, and quickly passed over Southern Korea and Japan sea. The track of this continental depression is not certain, owing to the sparseness of data. L. B. Unknown.

XII. *Depression of the 20th.*—This depression appeared in the Eastern sea of China on the early morning of the 20th, rapidly moved towards the northeast, and entered the Japan sea, passing through the straits of Tsushima on the night of the 20th. This depression caused a general rainfall of considerable amount in Western Japan. L. B. 753 mm.

XIII. *Continental Depression of the 23rd—the 24th.*—This depression appeared in Northern Japan sea on the afternoon of the 23rd, moved towards the northeast, and traversed Hokkaido on the 24th. L. B. 754 mm.

XIV. *Typhoon of the 28th—the 31st.*—This typhoon was first noticed in the sea east of the Philippines. Moving towards NNW the typhoon appeared near the island of Ishigakijima on the 28th. Itent ered the Eastern sea of China, passing between the Miyakoshima and the Okinawa islands on the night of the same day. It was lying near Shangtung on the 31st where it recurved towards NNE. Owing to the sparseness of meteorological data in the continent, we could not trace the storm-centre beyond Shangtung, but it was supposed that the centre entered Manchuria, touching Port Authur. A

wind and rain occurred along the track of cyclone during the visitation of the typhoon. L. B. 745 mm.

August.—During the present month, eleven barometric depressions passed over this country and neighbouring seas. Of these depressions, two were typhoons, two continental depressions, three low areas and the remaining four secondary depressions. The two typhoons came from the sea south of the Liukiu, and entered the continent. The both continental cyclones came from Manchuria and southern Siberia, the secondary depressions developed in central Japan and passed toward the south, while the remaining one developed in Northeastern Japan, and moved northeastwards.

I. *Continental cyclone of the 2nd.*—This cyclone came from Manchuria, appeared near Wladiostok on the night of the 2nd, and entered the sea of Okhotsk, traversing Northern Hokkaido. This depression caused southerly gales on the coast of Hokkaido. L. B. Unknown.

II. *Depression of the 3rd.*—This depression came from Southern Japan sea, appeared near the Northwest coast of Japan on the early morning of the 3rd, and entered the Pacific, traversing Northeastern Japan. A rather severe storm occurred in Northeastern Japan during the passage of the depression. L. B. 754 mm.

III. *Secondary depression of the 4th.*—This secondary depression developed near Yamagata, a town in Northeastern Japan on the early morning of the 4th, and entered the Pacific, following the former depression. L. B. 754 mm.

IV. *Secondary depression of the 4th.*—This depression developed near Kofu in Central Japan on the afternoon of the 4th, and entered the Pacific, moving towards the southeast. L. B. 743 mm.

V. *Typhoon of the 8th—the 12th.*—This typhoon appeared in the sea southeast of the islands of Miyakoshima, southern Liukius on the afternoon of the 8th, and entered the Eastern sea of China, passing near the islands on the night of the same day. It landed north of Foochow, south China, and moved up to the lower Yangtsekiang valley where it changed its course towards the northeast. The typhoon appeared near the promontory of Shangtung on the morning of the 12th, and passed further northeastwards, touching Wladiostok on the night of the same day. A severe storm occurred in the southern Liukius during the passage of the typhoon. L. B. 735 mm.

VI. *Depression of the 4th.*—This depression appeared near Nemuro, Hokkaido on the early morning of the 14th, and passed towards the southeast. L. B. Unknown.

VII. *Continental depression of the 18th.*—This depression came from Siberia, ap-

peared near Southwestern coast of the island of Sakhalien, and entered the sea of Okhotsk. L. B. Unknown.

VIII. *Depression of the 20th.*—This appeared north of the peninsula of Noto on the early morning of the 20th, and entered the Pacific, traversing Northeastern Japan. L. B. 754 mm.

IX. *Secondary depression of the 21st.*—This depression developed near Kofu in Central Japan on the afternoon of the 21st, and entered the Pacific, moving towards the southeast. L. B. 755 mm.

X. *Secondary depression of the 22nd.*—This secondary depression developed in the same locality as the former depression, on the afternoon of the 22nd, and entered the Pacific, moving towards the southwest. L. B. 754 mm.

XI. *Typhoon of the 20th—the 25th.*—This typhoon appeared near the east coast of Formosa on the night of the 20th, moved northwestwards, and entered the continent, traversing Northern Formosa on the morning of the 21st. Owing to the lack of meteorological date in the continent, a portion of the track of the typhoon lying over the continent was wholly known to us, but it seems probable, that the cyclonic centre recurved its course in the lower Yangtse valley. The typhoon again appeared near the promontory of Shangtung on the early morning of the 24th, after three days' journey over Eastern China, and movod further towards the northeast, crossing Northern Korea and Northern Japan Sea. On the afternoon of the 25th, the typhoon centre was lying near thei slands of Rijiri near North Western Hokkaido. It entered the Okhotsk on the night of the same day. L B. 748 mm.

September.—Nine barometric depressions, of which two were continental depressions, two typhoons and the remaining five areas of low pressure, passed over this country and neighbouring seas during the present month. The two typhoons were of very dangerous character, and caused a great deal of damages on the building, plantations etc in several prefectures. A detailed descriptions of one of the typhoons is given in the chapter II. of the present report.

I. *Continental depression of the 31st August—1st September.*—This depressio- appeared near Wladiostok on the afternoon of the 31st August, moved ton wards the northeast, and entered the sea of Okhotsk, passing through the Soya strait on the 1st. L. B. Unknown.

II. *Continental depression of the 2nd—the 3rd.*—This depression appeared in the Yangtsekiang valley, moved towards the east, and entered the Eastern sea of China on the evening of the 2nd. The continental depression passed through the straits of Tsushima on the early morning of the 3rd, entered the sea of

Japan and travelled along the coast of the Empire. It entered the Pacific, traversing Northeastern Japan. L. B. 755 mm.

III. *Typhoon of the 6th—the 9th.*—This severe typhoon appeared near the Marianne groups on the 6th, and arrived east of the Okinawajima on the night of the 7th, moving northwestward. Gradually recurving towards the northeast, the typhoon centre appeared in the sea south of Cape Murotosaki southern Japan on the night of the 8th, and at last landed near the cape of Shiomisaki. It passed near the town of Hamamatsu at 3am. on the 9th, and north of Tokio on the early morning of the same day. Again, the centre of storm entered the pacific, and travelled northeastwards up to the Southern Kuriles, and entered the sea of Okhotsk. During the visitation of this terrible typhoon, severe storm of wind and rain occurred, and buildings, plantations etc were greatly damaged by inundation and high wind. L. B. 722 mm.

IV. *Depression of the 7th.*—This depression developed near the island of Sado on the afternoon of the 7th, moved towards the northeast and filled up near the northwest coast of Japan. This small depression attended electrical displays near its centre. L. B. 754 mm

V. *Depression of the 17ht.*—This depression appeared in Northern Japan sea on the early of the 17th, moved towards the Southern, and entered the Pacific, traversing Southern Hokkaido, L. B. 756 mm.

VI. *Depression of the 20th—the 21st.*—This barometric depression appeared in the sea south of the island of Ishigakijima on the morning of the 20th, and rapidly moved up to Northern Kiushiu, where it changed its course towards the east. Passing through the Inland sea district, the depression passed into the Pacific on the 21st, and caused a storm of wind and rain on the south east coast of Japan proper. L. B. 753 mm.

VII. *Depression of the 22nd—the 24th.*—This developed near the east coast of Formosa on the 22nd, moved towards northern Kiushiu by almost the same course with that of preceding depression. Passing along the west coast of Japan proper, the cyclonic centre landed this country on the morning of the 24th, and travelled over Central Japan. It entered the Pacific on the night of the 24th. L. B. 753 mm.

VIII. *Typhoon of the 28th—the 29th.*—This typhoon appeared in the sea south of the Liukius on the early morning of the 28th, and entered the Eastern sea of China, passing between the Okinawa and Miyakojima islands. Recurving towards the northeast, the typhoon-centre approached the west coast of Kiushiu on the afternoon of the 29th, and at last landed near Kumamoto.

The typhoon travelled rapidly over the Pacific coast up to the Bosô peninsula where it passed away into the Pacific. Severe storms occurred in several prefectures during the visitation of the typhoon, and a great deal of damages were done by the high wind and inundation accompanied the cyclonic storm. L. B. 737 mm.

IX. *Depression of the 30th.*—This depression appeared off the west coast of Hokkaido on the early morning of the 30th, and entered the sea of Okhotsk, traversing Northern Hokkaido and causing stormy weather there.

L. B. Unknown.

October.—During the present month ten barometric depressions passed over this country and neighbouring seas, of which five were continental depressions, four, areas of low pressure; and the remaining one was a typhoon. Four of these continental cyclones came from Manchuria and southern Siberia, and the remaining one from the Yangtse valley. The typhoon came from the Pacific, near islands of Mariana, and travelled off our Pacific coast.

I. *Depression of the 4th—the 6th.*—This depression appeared in the southern sea of Formosa on the afternoon of the 4th, moved northeastwards, and entered the Eastern sea of China. Gradually curving its course towards the east, the depression passed near Noto on the morning of the 6th and entered the Pacific. L. B. 755 mm.

II. *Depression of the 5th.*—This depression came from the Pacific, appeared south of the cape of Shiomisaki on the early morning of the 5th, and passed towards the east, causing a storm of wind and rain, in Southeastern Japan. L. B. Unknown.

III. *Depression of the 7th.*—This depression appeared in the sea east of the Liukius on the 7th, and moved toward the northeast. This depression was found lying off the cape of Shiomisaki on the early morning of the 8th, and it travelled up to the east coast of Japan proper.

IV. *Continental depression of the 7th.*—This depression came from Northern China, appeared off the northeast coast of Korea peninsula or the night of the 7th, and passed to the sea of Okhotsk, moving towards the northeast. Southerly strong gales were felt in Hokkaido, during the passage of this cyclone. L. B. 745 mm.

V. *Continental depression of the 9th—the 12th.*—This depression was first noticed west of Chunking in the upper Yangtsekiang valley in Southern China on the 9th. Making its way towards the east, it passed south of Kiukiang on the 10th, and north of Shanghai about the noon of the 11th. On the early

morning of the 12th, the continental depression was found lying near the southwest coast of Korea, and after traversing central Korea, the depression entered the sea of Japan, and finally passed into the Okhotsk. Southerly gale prevailed in Northern Japan during the passage of this depression.

L. B. 745 mm.

VI. *Continental depression of the 14th.*—This depression came from southern Siberia and entered the sea of Okhotsk, traversing the strait of Soya on the early morning of the 14th. L. B. Unknown.

VII. *Continental depression of the 16th.*—This depression came from Northern Korea, appeared in northern Japan sea on the morning of the 16th, and passed into the sea of Okhotsk. L. B. Unknown.

VIII. *Typhoon of the 23rd—the 25th.*—This typhoon which probably developed near the islands of Marianne approached to the sea east of the Philippines, and changed its northwesterly course towards the northeast. The typhoon appeared in the east of the Liukius on the morning of the 23rd, and off the east coast of Japan proper on the afternoon of the 24th. Moving further northeastwards, the storm-centre passed towards the Kuriles on the morning of the 25th. Since the centre passed off the coast, the whole country with an exception of eastern Hokkaido was luckily free from the damage done by the storms. L. B. 742 mm.

IX. *Depression of the 23rd—the 25th.*—This depression developed in the Tsushima straits on the afternoon of the 23rd, and moved towards the northeast. It appeared near Suttsu on the early morning of the 20th, and traversed Southern Hokkaido on the 25th. This depression developed in depth and intensity as it moved towards the east, so that a severe storm occurred in Hokkaido on the 25th. L. B. 740 mm.

X. *Continental depression of the 28th.*—This depression came from southern Manchuria, appeared in Northern sea of Japan on the early morning of the 28th, and entered the sea of Okhotsk, traversing Northern Hokkaido.

L. B. 750 mm.

November.—During the present month, eleven depressions passed over the Empire and neighbouring seas, of which five were continental cyclones, five, areas of low barometer, and remaining one was secondary depression. The area of low pressure marked No. VII in the text and plate is probably a continental cyclone came from Northern China, but since we have not meteorological date to decide the point, we put it in the class of depression.

I. *Continental depression of the 2nd.*—This depression appeared in the sea of

Okhotsk on the early morning of the 2nd, moved towards the southeast and entered the Pacific, traversing the island of Kunashiri. L. B. Unknown.

II. *Depression of the 3rd—the 5th.*—This depression came from the sea south of the Liukius, and approached the island of Ishigakijima on the night of the 3rd. The typhoon passed between the Okinawajima and Amami-Oshima on the early morning of the 5th. L. B. 722 mm.

III. *Continental depression of the 9th.*—The depression came from Siberia, appeared in the Gulf of Tartar on the early morning of the 9th, and entered the sea of Okhotsk, passing through the strait of Soya. L. B. Unknown.

IV. *Continental depression of the 14th.*—This depression appeared in the Gulf of Tartar on the early morning of the 14th, and entered the Pacific, traversing southern Okhotsk. L. B. Unknown.

V. *Depression of the 15th.*—This depression appeared in the sea southwest of the island of Ishigakijima on the early morning of the 15th, moved towards the northeast, and entered the continent, traversing central Formosa. L. B. 758 mm.

VI. *Continental depression of the 15th—the 17th.*—This depression developed in the valley of the Yangtsekiang on the 15th, moved towards the east, and entered the Eastern sea of China. The depression appeared near Quelpart island on the early morning of the 16th, and crossed central Kiushiu on the afternoon of the same day. It travelled along our Pacific coast, and passed off the southeast coast of Japan proper on the morning of the 17th. L. B. 748 mm.

VII. *Depression of the 17th—the 18th.*—This depression appeared in Northern Japan Sea on the afternoon of the 17th, and entered the Pacific, passing through the strait of Tsugaru on the early morning of the 18th. L. B. 750 mm.

VIII. *Depression of the 18th.*—This depression appeared near Southern Formosa on the early morning of the 18th, moved towards the northeast, and entered the Eastern sea of China. After passing near the islands of Yaeyama, Liukius the depression passed to the Pacific. L. B. 757 mm.

IX. *Depression of the 23rd—the 25th.*—This depression appeared near the islands of Tsushima on the early morning of the 23rd, moved towards the northeast and entered the Pacific, passing near the strait of Tsugaru on the early morning of the 25th. The locality where this depression developed is not known, but it is highly probable that it came from the Eastern sea of China. A severe storm of wind and rain was felt in Northeastern Japan. L. B. 750 mm.

X. *Secondary depression of the 23rd.*—This depression is probably a secondary low area developed in the cyclonic area of the former depression. Our morning weather chart of the 23rd gave a marked evidence of its existence in southern Kiushiu. The depression travelled along our Pacific coast, and passed off the east coast on the 24th. L. B. Unknown.

XI. *Continental de pression of the 27th—the 28th.*—This depression came from northern China, appeared in the Gulf of Korea on the afternoon of the 27th, moved towards the east and traversed the sea of Japan. The depression approached our northwest coast on the morning of the 28th, traversed Northeastern Japan and entered the Pacific. L. B. 749 mm.

December.—Ten barometric depressions passed over this country and neighbouring seas, of which two were continental depressions, 6 secondary depressions and the remaing two areas of low barometer. The two continental cyclones came from eastern Siberia, and entered the Pacific, moving, as a rule, towards the Southeast. One of the two areas of low barometer came from southern Liukiu and the other from the straits of Tsushima. All the secondary depressions developed in central Japan, and most of them passed southeastwards into the Pacific.

I. *Depression of the 6th—the 7th.*—This depression developed near the islands of Tsushima on the early morning of the 6th, moved northeastwards and entered the Pacific, traversing northeastern Japan on the morning of the 7th. The place where this low area developed is not exactly known, but we have the reason to suppose that it originated in the straits of Tsushima, since we could not trace it further westwards beyond that place. L. B. 762 mm.

II. *Continental depression of the 9th—the 10th.*—This depression appeared in the of Tartar on the afternoon of the 9th, moved, as a rule, towards the south-Gulf east, and entered the Pacific, traversing the island of Kunashiri on the early morning of the 10th. A severe snow storm occurred in Hokkaido during the passage of the cyclone. L. B. 745 mm.

III *Depression of the 9th—the 10th.*—This low area appeared near the island of Ishigakijima on the early morning of the 9th, moved towards the northeast, and entered the Pacific, passing near the island of Oshima on the afternoon of the 10th. L. B. 759 mm.

IV. *Secondary depression of the 10th.*—This low area developed near Kofu in central Japan on the afternoon of the 10th, and entered the Pacific, moving towards southeastwards. Cyclonic winds of great intensity developed around the centre of the depression. L. B. 753 mm.

V. *Secondary depression of the 14th.*—This depression developed near Kofu in central Japan on the afternoon of the 14th, and entered the Pacific, moving southeastwards. L. B. 754 mm.

VI. *Secondary depression of the 15th.*—This depression developed near Kofu in central Japan on the ofternoon of the 18th, and entered the Pacific, moving northeastwards. L. B. 757 mm.

VII. *Secondary depression of the 16th.*—This depression developed in the northern side of Mount Fujiyama on the afternoon of the 16th, moved towards the southeast, and entered the Pacific. L. B. 759 mm.

VIII. *Secondary depression of the 20th.*—This depression developed near Iida in central plateau of the Empire on the afternoon of the 20th, moved towards the east, and entered the Pacific. L. B. 758 mm.

IX. *Continental depression of the 26th.*—This depression came from the Gulf of Tartar, appeared in the sea of Okhotsk on the early morning of the 26th, and entered the Pacific, traversing the island of Kunashiri on the afternoon of the same day. L. B. Unknown.

X. *Secondary depression of the 28th.*—This depression developed in the plateau of central Japan on the afternoon of the 28th, moved southeastwards and entered the Pacific. L. B. 758 mm.

II. REMARKABLE TYPHOONS.

1. The typhoon of July 27th—the 30th.

On the early morning of the 27th, the barometer began to fall rapidly in the Liukius and Formosa, and easterly wind set in over the Southwestern islands, while the barometer rose elsewhere. Our weather chart of the afternoon on the same day gave the first marked indication of the existence of a typhoon advancing towards the Liukius. The barometer continued falling in the islands of Ishigakijima and Okinawa-jima, the fall during the previous 24 hours ending at 2 p.m. on the 27th being 3.4 mm, at the former and 1.7 mm at the latter. Cyclonic wind was fully developed over the islands. The Ishigakijima felt northeasterly strong wind and the Nafa easterly wind of moderate force. The area of high barometer was occupying over Southeast coast, having the highest barometric reading 763 mm. On the early morning of the 28th, centre of typhoon was lying near the island of Miyakojima, just entering the Eastern sea of China. The area of high barometer was almost stationary on the South-east coast of Japan proper. A heavy thunderstorm broke out in the Ishigakijima, and torrential downpour of rain occurred. The amount of precipitation during one

hours from 10 am to 11 am on the 28th was 19.1 mm, that from 11 am. to the noon 14.8 mm, and that from the noon to 1 pm 22.0 mm. The force of wind during the heavy rainfall was comparatively small, being below 10 metres per second.

The typhoon entered the Eastern sea of China on the morning of the 28th. The lowest barometer of 748.7 mm occurred at the Ishigakijima station at 5 am.

The following is an extract of the meteorological observations taken at the Ishigakijima meteorological station during the visitation of the typhoon :—

Date	Hour	Barometer	Wind direction	Wind velocity.
28th	2a	749.7 mm.	NNE	5.8 m/s
„	5a	48.7	N	5.7
„	6a	48.8	N	6.1
„	7a	49.2	N	10.1
„	8a	49.4	NW	8.9
„	9a	50.0	NW	8.7

At the meteorological station in the island of Okinawajima, the following entra observations were taken during the passage of the storm :—

Date	hour	Barometer	Wind direction	Wind velocity.
28	8p	749.5 mm.	ESE	6.8 m/s
„	10p	48.7	SE	8.6
„	11p	48.1	SE	9.6
„	Midnight	47.3	SSE	9.4
29	1a	46.5	S	9.7
„	2a	46.3	S	11.2
„	3a	46.3	SSW	9.8
„	4a	46.6	SSW	8.6
„	5a	47.9	S	8.6
„	6a	48.7	SSW	8.7

Lightnings were observed at 2a and 6a on the 28th, and at 1a, 2a and 3a on the 29th at Nafa, Okinawajima. A thurderstorm was also experienced at the island of Ishigakijima during the passage of the typhoon.

After entering the Eastern sea of China, the typhoon-centre advanced further northwards, and crossed the peninsula of Shangtung on the evening of the 31st. We give below the meteorological observations made at Chefoo during the visitation of the typhoon, which we extracted from the Bulletin of the Zikawei Observatory, Vol. XXVIII :—

Date	Hour	Barometer	Wind direction	Wind force
July 31	4p	750.8	NE	6—7
,,	6p	48.0	NE	7—8
,,	7.30p	46.5	ENE	7—8
,,	9p	45.5	E	7—8
,,	10.30p	45.0	S	7
August 1a	0.30a	46.5	S	7
,,	1.30a	47.0	S	7
,,	3a	47.8	S	7
,,	4.30a	48.5	SSW	5—6

The time used in the above observations is probably the local time at Chefoo, which is almost the same with Shanghai time.

The centre of typhoon entered Southern Manchuria, touching Port Auther on the early morning of August 1st.

2. The typhoon of August 7th—12th.

This typhoon came from the sea south of the Liukius. At first, it moved towards WNW till it appeared southeast of the island of Ishigakijima on the morning of the 7th. Passing between the islands Ishigakijima and Okinawajima on the afternoon of the 8th, the typhoon landed near Foochow, southern China. After entering the continent, the cyclonic storm gradually changed its direction of motion, and took a northeasterly course in the lower Yangtse valley between Chinkiang and Shanghai. At last, the centre passed near Wladiostok on the night of the 12th, touching the promontory of Shangtung on the morning of the same day. The track of the typhoon can be traced as far as Shanghai from Southern Liukius, and a greater part of it lying over the continent could not trace, owing to the sparseness of meteorological observations on the Asiatic coasts.

During the passage of the storm, the lowest barometric reading 736.8 mm was observed at 7.30 pm. on the 8th at Ishigakijima. Gale continued for about 80 hours from 7 pm on the 8th to 6 am. of the 12th, and the greatest velocity 35.1 metres per second was observed at 10.3 ap. on the 10th. Happily, however, the rainfall was comparatively less, so that no serious damage was done by the storm. We give below an extract of the meteorological register of the Meteorological station :—

Date	Aour	Barometer	Wind direction	Wind velocity.
8	10a	741.1 mm	N	9.1 m/s
,,	noon	39.6	NN	9 4
,,	2p	38.1	N	7.2
,,	4p	37.2	NNW	7.7

Date	Hour	Barometer	Wind direction	Wind velocity.
„	5p	37.0	NW	7.8
„	6p	37.0	W	8.3
„	6.30p	37.2	WSW	9.5
„	7p	36.9	SW	8.7
„	7.30p	36.8	WSW	14.1
„	8p	36.8	WSW	17.9
„	8.30p	37.1	SW	17.6
„	9p	37.3	SW	23.8
„	10p	37.9	SW	30.2
„	10.30p	38.2	SW	35.1
„	11p	38.6	SW	33.2
„	mm	38 4	SW	30.6

We give also an extract of meteorological Observations made at Zikawei Observatory near Shanghai:—

Date	Hour	Barometer	Wind direction	Wind velocity.
10	9a	746.6 mm	E	3.4 km/h
	1p	45.9	ESE	2.2
	5p	45.5	SE	1.8
	9p	45.6	ESE	3.2
11	1a	44.7	SE	4.2
	5a	44.1	SSE	3.0
	9a	44.7	SSE	3.6
	1p	44.3	S	3.3
	5p	44.6	S	2.6

Here it should be noticed that the time employed at the Zikawei Observatory is the 120th meridian time, and the barometric pressure here given is not reduced to see-level and to standard gravity.

3. *The typhoon of September of the 7th—the 9th.*

This typhoon appeared near the Marianne groups on the 6th of the month, and moved at first towards the northnorthwest, arriving on the parallel of the Okinawajima on the night of the 7th. Gradually recurving towards the northeast, the typhoon appeared south of the cape of Murotosaki in southern Japan on the night of the 8th, and landed near Cape of Shiomisaki in the peninsula of Kii. It passed near the town of Hamamatsu at 3 am on the 9th, and north of Tokio on the early morning of the same day. After entering the Pacific, the typhoon rapidly travelled towards the northnortheast, and arrived Southern Kuriles on the night of the same day.

Our morning weather chart of the 7th gave the first indication of the approach of this severe typhoon. On the afternoon of the same day, the barometer fell in the Southwestern islands, and heavy gales set in over the Amami-Oshima and the neigh bouring islands on the afternoon of the same day. The typhoon was then recurving towards the northeast, and its rate of motion was very small, so that it seemed the centre was almost stationary during the day. Next morning, the centre of typhoon passed east of the Amami-Oshima northeastwards, causing general rainfall over southern and southeastern Japan. On the night of the 8th it arrived southwest of the cape Shiomisaki. The rapid fall of barometer took place in southern Japan, the fall in the past 8 hours ending at 10 p.m. of the same day being 11.7 mm. at Shiomisaki station. The typhoon passed towards the northeast along the east coast of Kii peninsula, and passed north of Numazu and Hamamatsu on the early morning of the 9th. We give below an extract of the observations made at the two stations, Hamamatsu and Numazu during the passage of the typhoon :—

	Numazu.					Hamamatsu.			
Date	Hour	Barometer	Wind.d.	Wind.velo.	Date	Hour	Barometer	Wind.d.	Wind.velo.
8	6p	756.9	E	1.9	8	6p	755.1	SE	3.4
	8p	56.3	ENE	2.7		8p	55.1	ESE	5.2
	10p	55.7	ENE	1.5		10p	53.8	ENE	6 2
	11p	55.4	NE	1.6	9	2a	41.1	ESE	18.2
9	2a	47.4	NE	5.2		2.30a	36.5	ESE	21.3
	3a	45.2	S	4.1		3a	21.8	SW	27.2
	4a	39 9	SW	14.3		3.30a	36.1	WSW	17.1
	5a	28.9	SW	5		4a	41.9	WSW	19.5
	5.30a	41.3	SW	19.0		5a	48 3	W	10.8
	6a	44.3	SW	19.0		6a	49.3	WSW	9.7
	7a	46.8	SSW	15.0					
	8a	48.5	SSW	12.9					
	9a	49.2	SW	10.5					
	10a	50.8	SW	7.2					

This typhoon attended an electrical display near its centre. Thunderstorms were felt at several stations lying near the track of the centre. At 6a.m. on the 9th, the typhoon centre was near Tokio, causing an enormous velocity of wind 475 m per second at that time. The barometer then sank to the lowest stand of 733.5 mm. The typhoon travelled rapidly towards the northeast, passing the north of Mito at 7.30 am on the 9th, and passed into the pacific. On the night of the same day, the typhoon passed east of Nemuro towards the southern Kuriles. At Nemuro, gales set in at 3p.m. on the 9th, and continued to the noon on the 10th, wind backing towards the northwest. At 8 p.m. on the 9th, the lowest barometer was observed, when sud

den fall of wind velocity occurred, showing that Nemuro was then within a very short distance from the eye of storm. After a short time, the wind velocity suddenly increased, the greatest velocity 22.6 m. per second occurring at 11 p.m We give here the meteorological observations made at Nemuro observatory during the storm.

Date	Hour	Barometer	Direct. of wind	Velocity of wind.
9	1p	755.3	E	6.7
„	2p	51.9	NE	9.4
„	3p	49.8	E	10 8
„	4p	46 4	ENE	13.2
„	5p	43.1	ENE	15.8
„	6p	40.0	EN	15.7
„	7p	38.3	ENE	10.8
„	8p	37.9	NW	3 2
„	9p	39.8	NNW	19.0
„	10p	41.2	NNW	19.5
„	11p	43.3	NNW	22.6
„	m. n	44.9	W	16.0
„	1a	46.0	WNW	16.6
„	2a	47.1	WNW	15.8
„	3a	48.0	W	15.6

4. *The typhoon of November 3rd—the 6th.*

On the morning of the 3rd, a decided fall of the barometer took place in the Southwestern islands and on our Pacific coast, showing the approach of a barometric depression from the sea south of the Ishigakijima island. On the afternoon of the same day, a typhoon of great intensity appeared south of the island. The barometer continued falling very quickly all over the islands of Liukius, and severe gales with torrential rainfall set in. At the Ishigakijima meteorological station, the barometer indicated 754 mm at 6a m. on the 3rd, and as the centre of typhoon drew near the island, the barometer began to fall with rapidity, and the lowest reading 722 mm was observed at 10,30 p.m. on the same day. The average rate of the fall of barometer for the 17.5 hours was 1.8 mm per hour, and the greatest rate was 5.6 mm per hour. The intensity of wind also steadily increased from the morning of the 3rd, and an enormous velocity of 70.7 metres per second was observed at 5,30 p.m. on the same day, when the cups of the Robinson's amemometer of the Observatory were blown away. We give below an extract of the meteorological register at the Ishigakijima meteorological station during the passage of this storm :—

Date	Hour	Barometer	Direct. of wind	Velocity of wind.
3	1p	748.8 mm	NE	29.3 m/s
„	2p	45.8	NE	31.0
„	3p	44.1	NE	33.4
„	4p	42.6	NE	35.4
„	5p	38.5	NE	42.8
„	5.30p	36.0	NE	70.7
„	6p	33.2	NE	(6)
„	7p	27.6	NE	(6)
„	8p	25.4	NE	(6)
„	9p	23.1	NE	(6)
3	9.30p	22.8	NE	(6)
„	10p	22.6	NNE	(6)
„	10.30p	22.2	N	(6)
„	11p	23.7	N	(6)
„	11.30p	24.0	NNW	(6)
„	m. n.	24.2	NW	(6)
4	1a	29.0	NW	(6)
„	2a	34.0	WNW	(6)
„	3a	38.5	WNW	(6)
„	4a	40.0	W	(6)
„	5a	43.2	W	(6)

The centre of typhoon passed east of the island of Ishigakijima on the night of the 3rd, gradually recurving towards the northeast, and approached the island of Okinawajima The meteorological observatory at Nafa in the island reported: "Since the evening on the 4th, the wind increased in force, the direction being constantly SE, and the barometer began to fall very quickly. Since the midnight, the wind became furious, and rain began to fall in torrents. The lowest barometer 725.7 mm was observed at 2,35 a.m. The direction of wind suddenly changed to the west at 3 a.m. There was an interval of relative calm before that hour. As the wind veered towards the northwest, the barometer began to rise with a great rapidity. The greatest-velocity of wind 38.1 m per second was observed at 5. a.m. The tiles of several houses were blown away; branches of trees broken down, and some of large trees rooted. Two houses were completely destroyed, and many buildings including the signal mast and the theremometer screen were greatly damaged." We give below the meteorological observations taken at the Naha observatory during the passage of the severe typhoon:—

Date	hour	Barometer	Direct. of wind.	Velocity of wind.
4th	4p	755.8 mm	E	5.3 m/s.
„	6p	55.2	SE	7.9
„	8p	53.9	SE	10.1
„	10p	51.5	SE	11.6
„	11p	49.4	SE	12.2
„	m.n.	46.1	SE	14.8
5th	1a	39.3	SE	18.4
„	2a	30.7	S	21.7
„	3a	27.6	WSW	18.1
„	4a	32.5	NW	19.1
„	5a	37.6	NW	38.1
„	6a	45.3	NNW	32.8
„	7a	49.7	NW	30.0
„	8a	52.4	NNW	25.7
„	9a	53.4	NNW	18.6
„	10a	54.5	NNW	16.9
„	11a	55.5	NNW	15.4

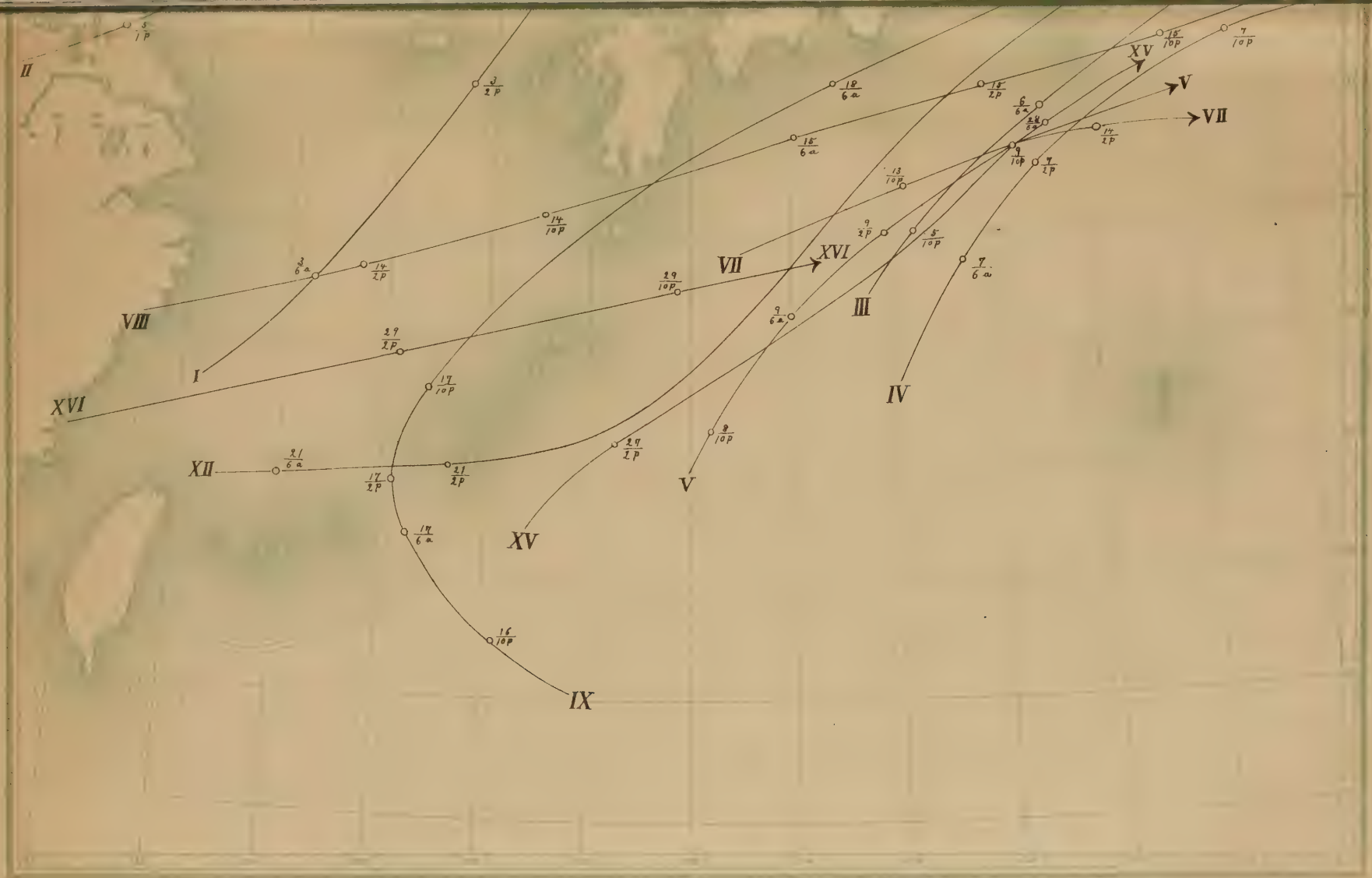
The typhoon passed north of Naha on the night of the 4th, and south of the Amami-Oshima on the afternoon of the 5th. Since it left the neighbourhood of the Ishigakijima, its centre became rapidly shallow, and the force of wind was considerably decreased. The minimum barometer observed at the Oshima meteorological station was 753.1 mm at 3 p.m. on the 5th, and the maximan wind velocity 10.9 metres per second at 6p.m. on the same day, the direction being the north. A comparison of the following extract from the meteorological register at the Oshima station with those at Naha and Ishigakijima given above will show that the typhoon was gradully filling up in its way towards the Pacific :—

Date	Hour	Barometer	Direct of wind	Velocity of wind.
5th	10a	755.8 mm	SE	4.8 mm
„	11a	55.2	SE	5.4
„	noon	54.1	SE	5.1
„	1p	53.9	SE	3.3
„	2p	53.4	SE	3.7
„	3p	53.1	NE	3.4
„	4p	54.1	N	7.8
„	5p	54.4	N	9.4
„	6p	55.0	N	10.9
„	7p	55.4	N	8.4

The typhoon further advanced towards the northeast, and passed far south of the island of Hachijo, which lies off our southeast coast on the night of the 7th.

TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

January, 1897.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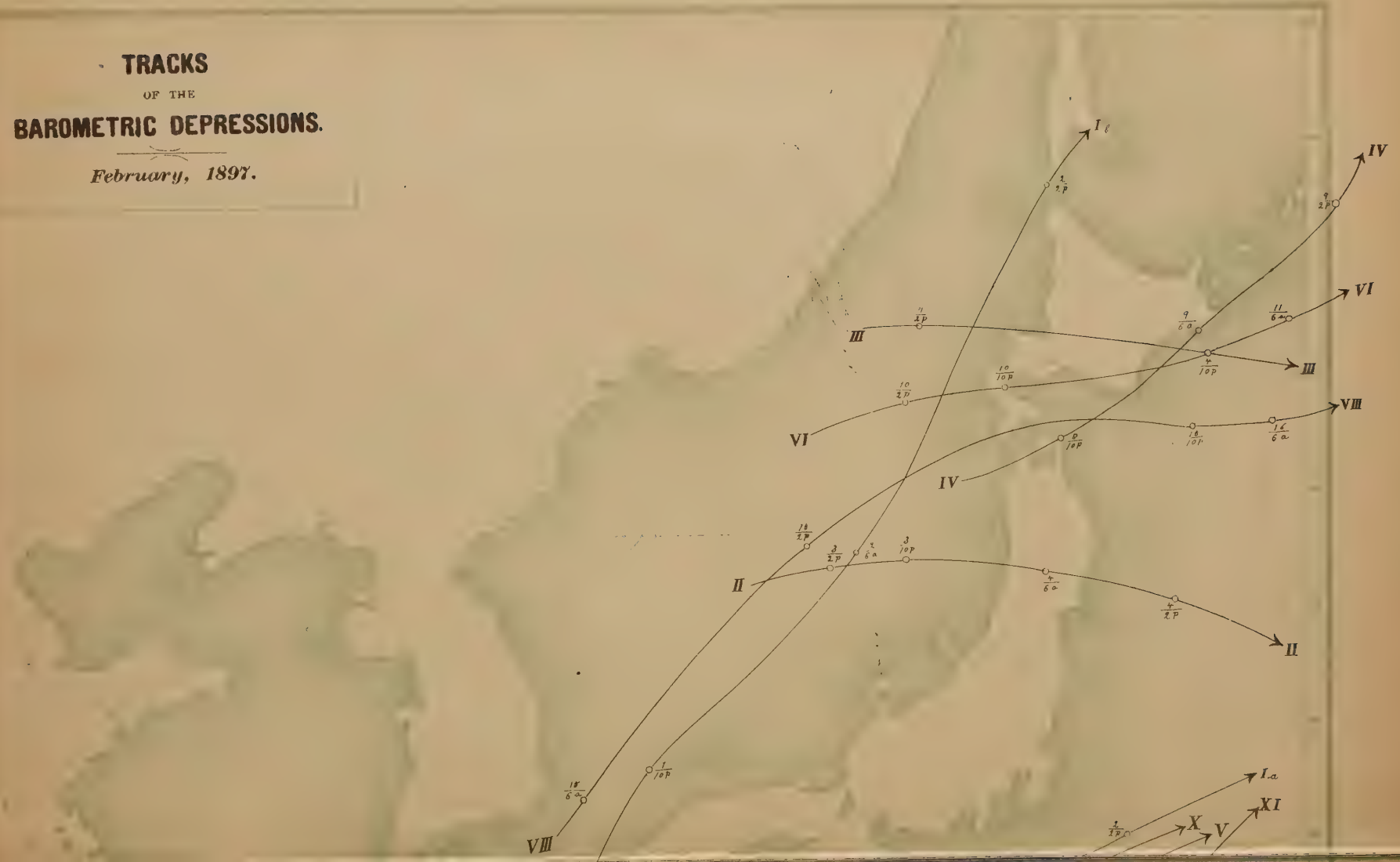
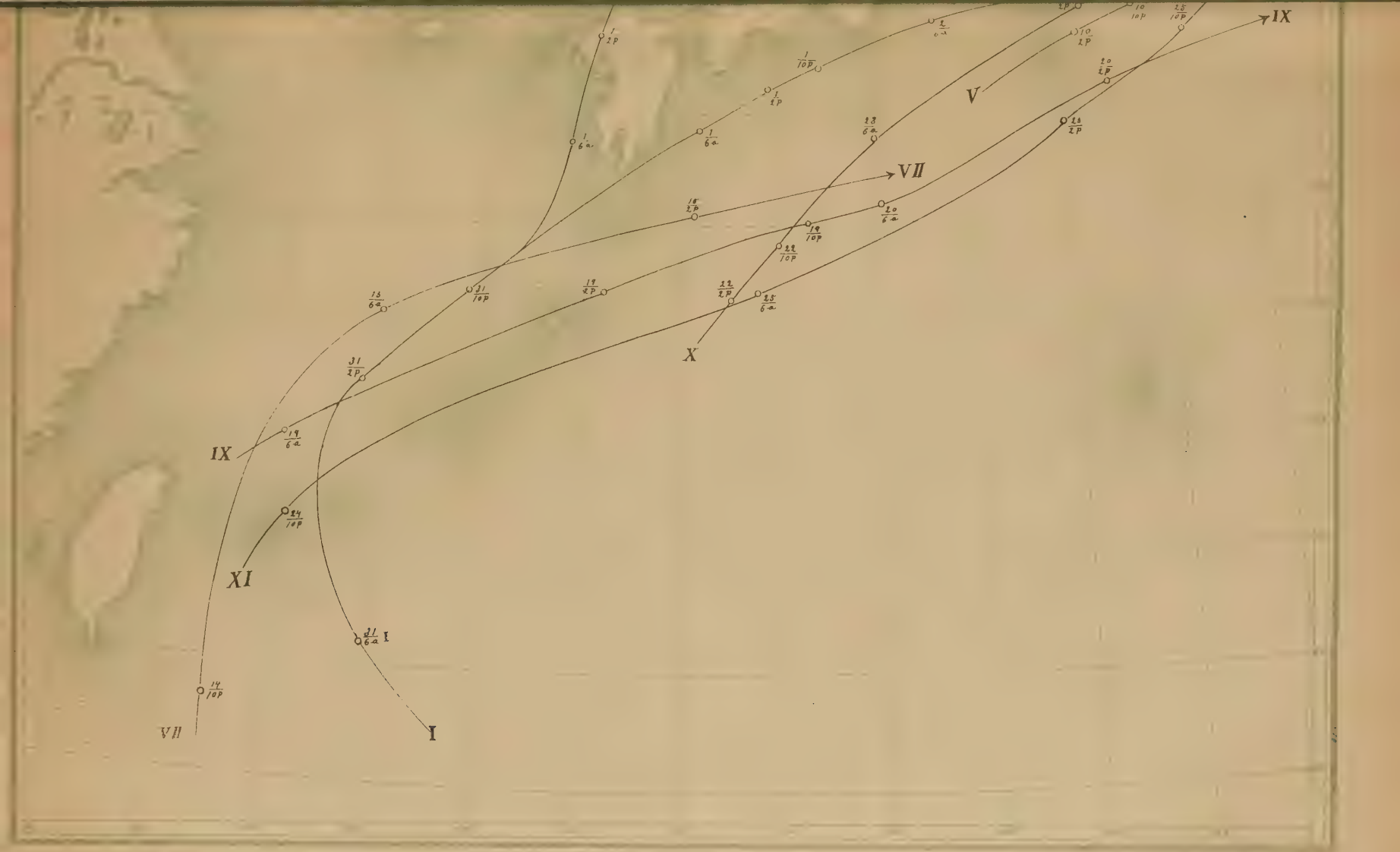
TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

February, 1897.

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TRACKS
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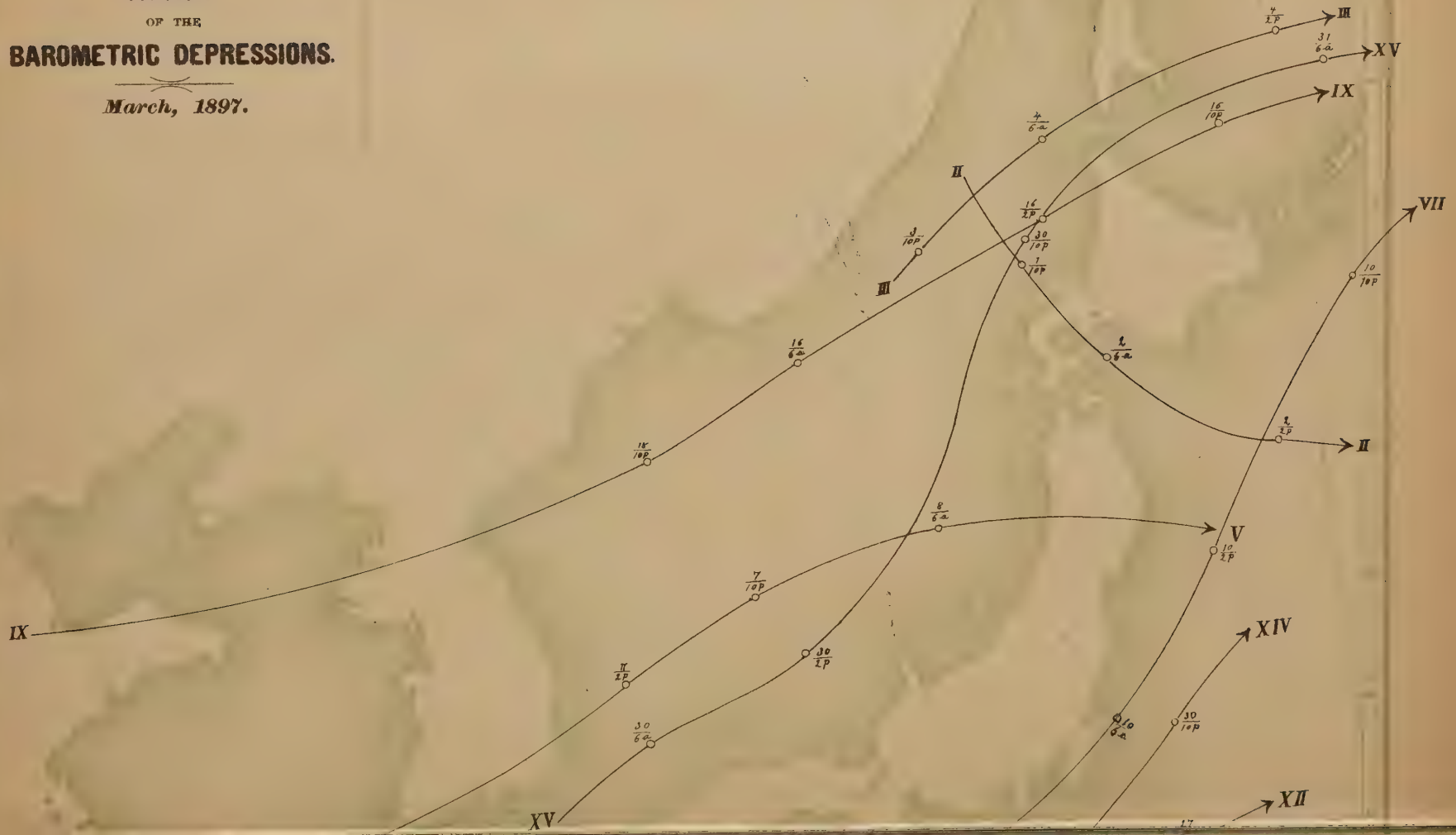
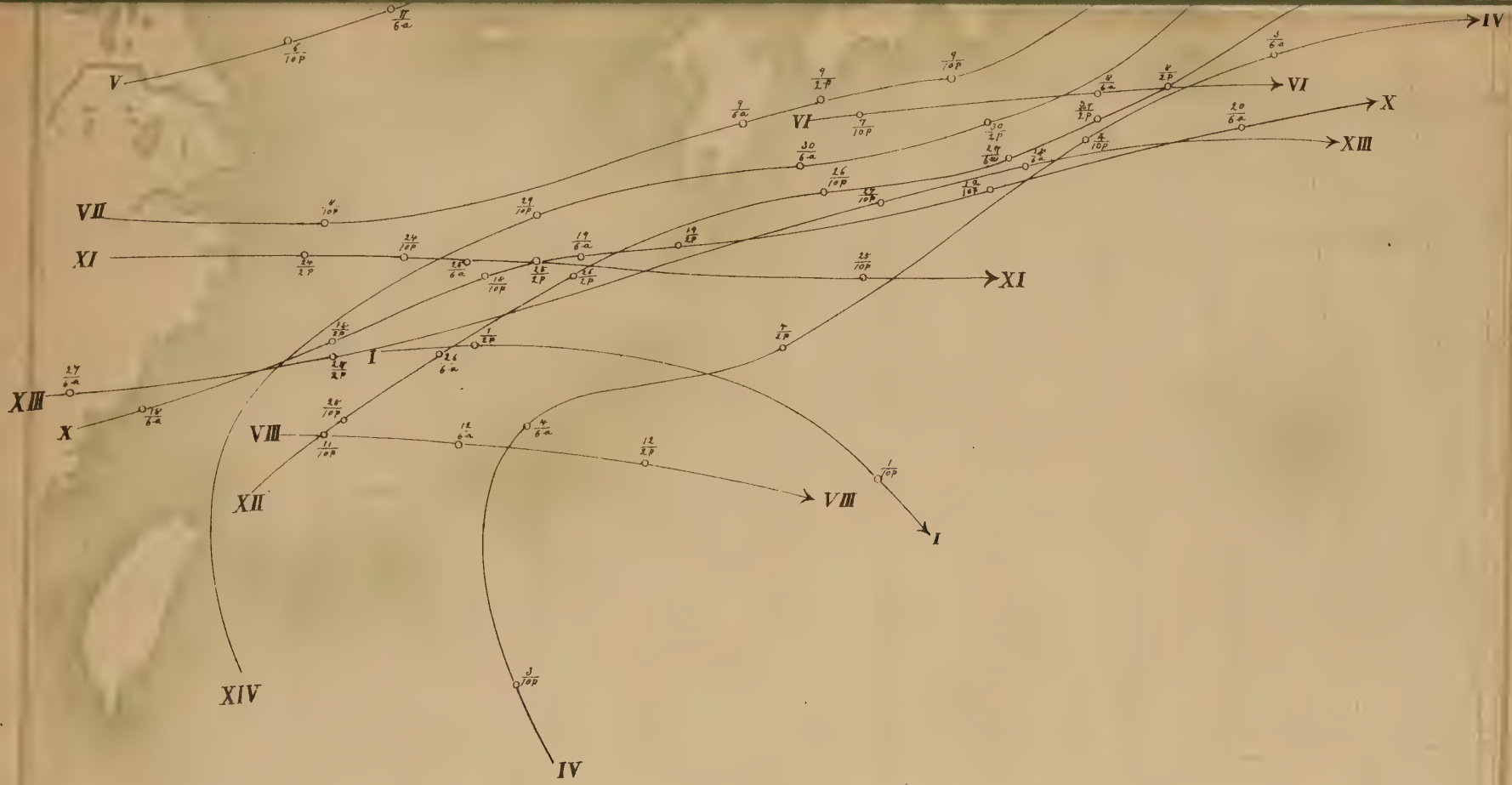
BAROMETRIC DEPRESSIONS.

March, 1897.

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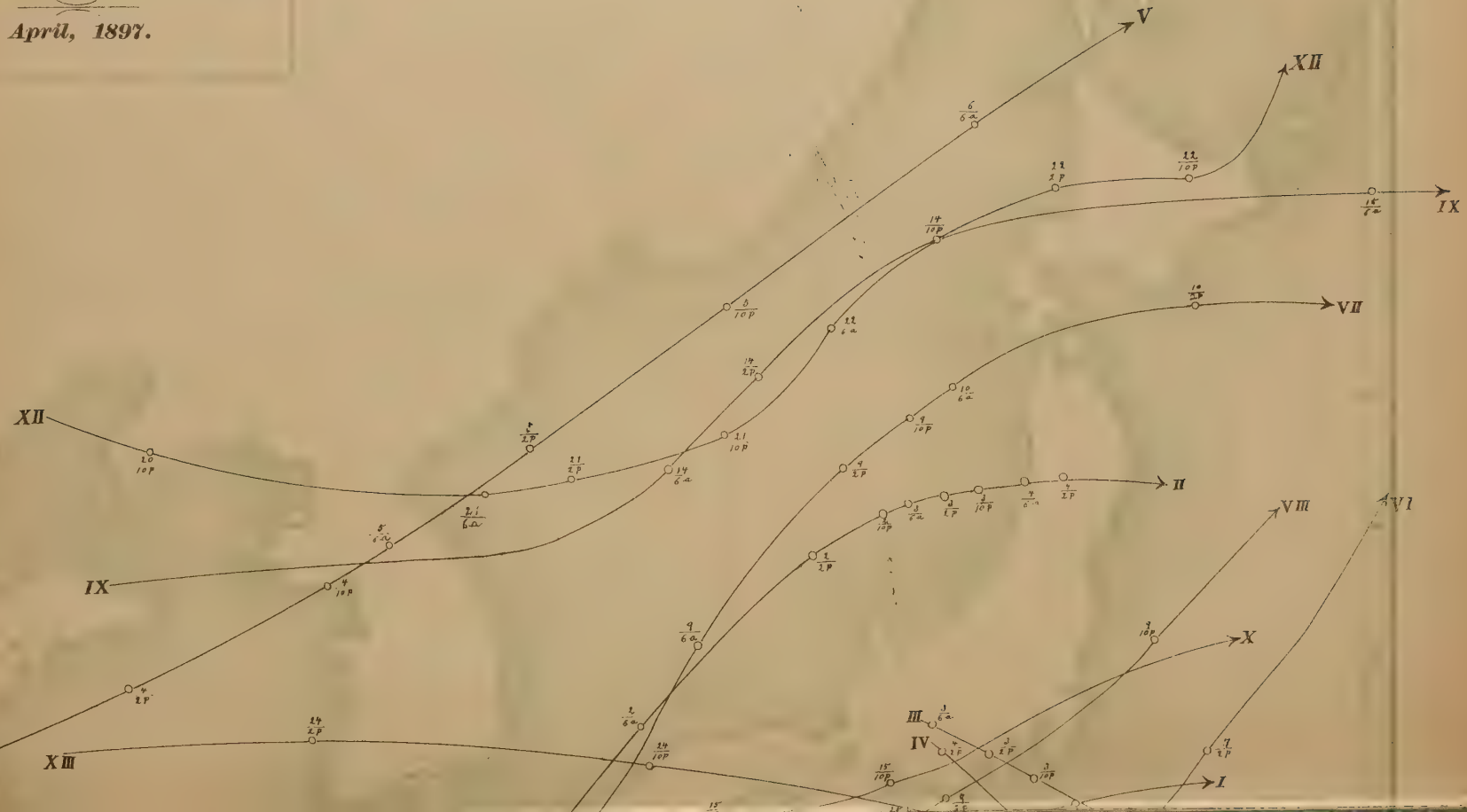

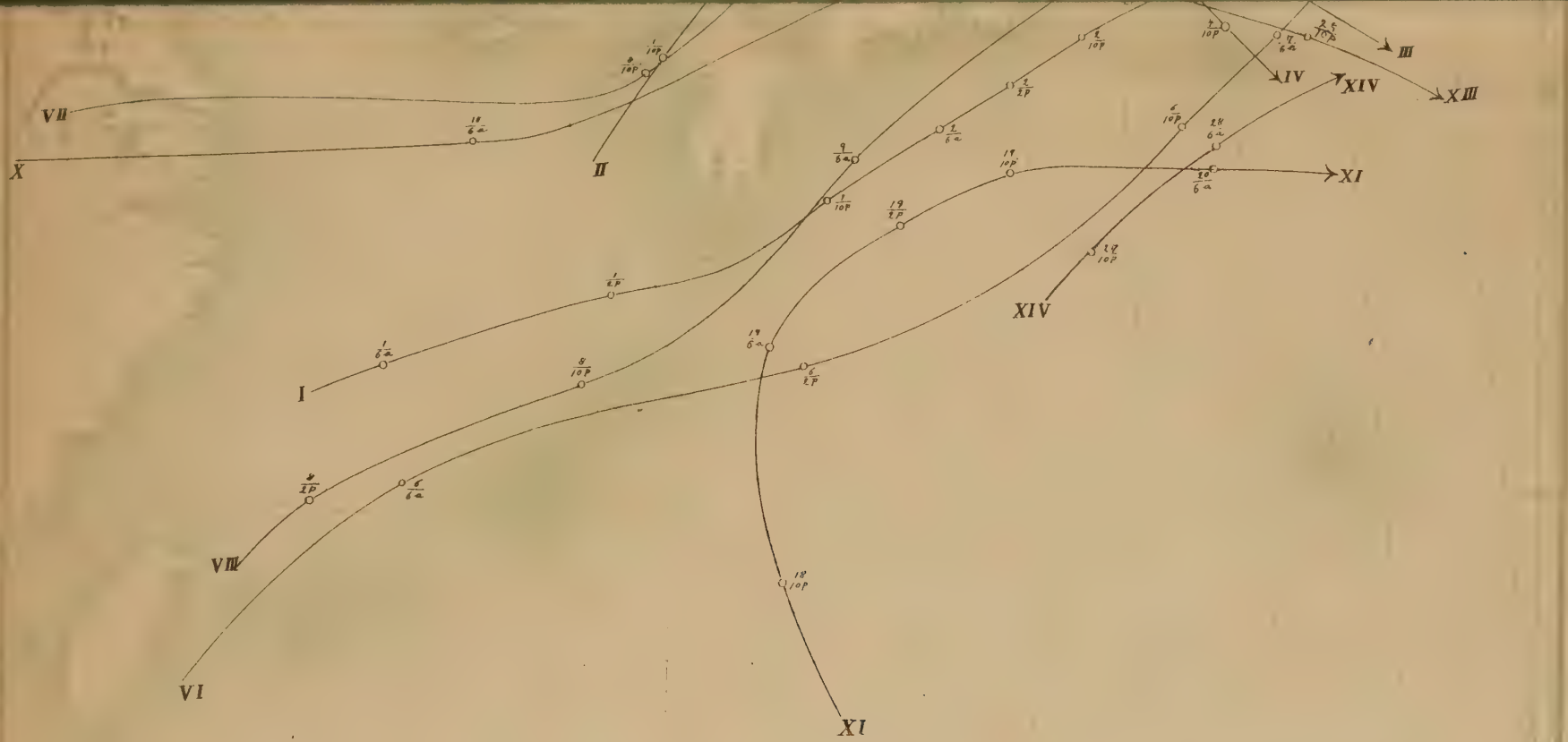
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TRACKS
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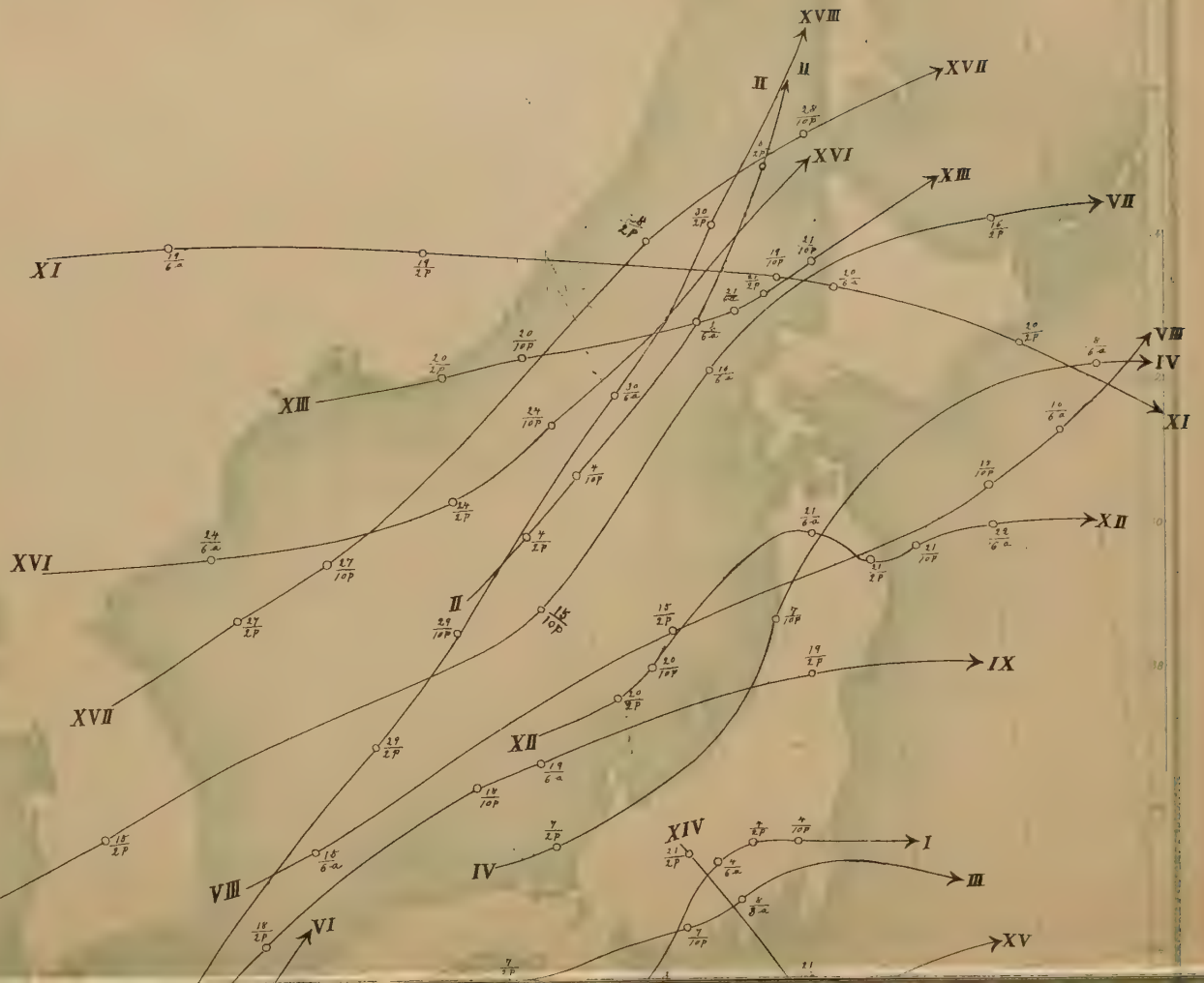
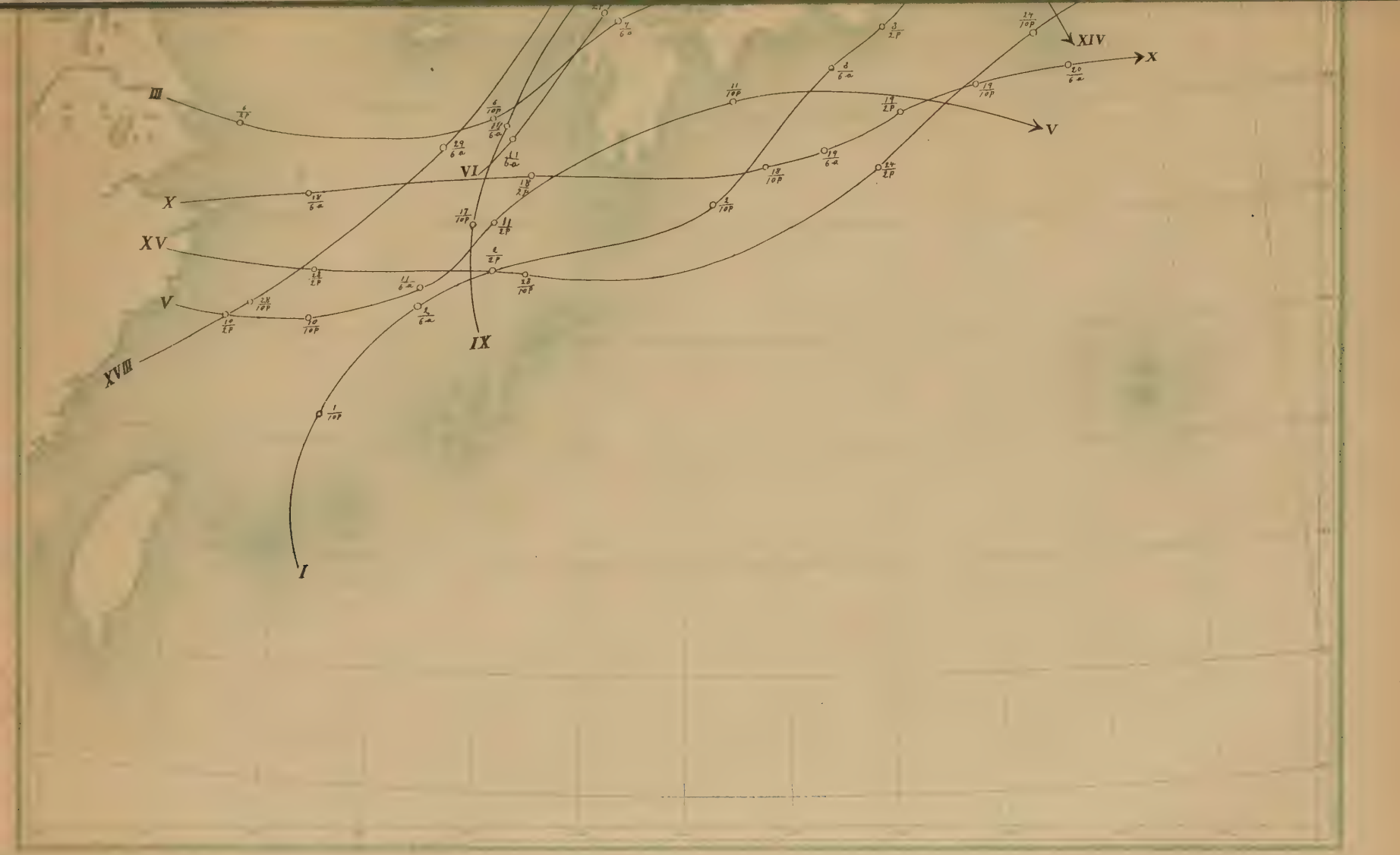
May, 1897.

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TRACKS
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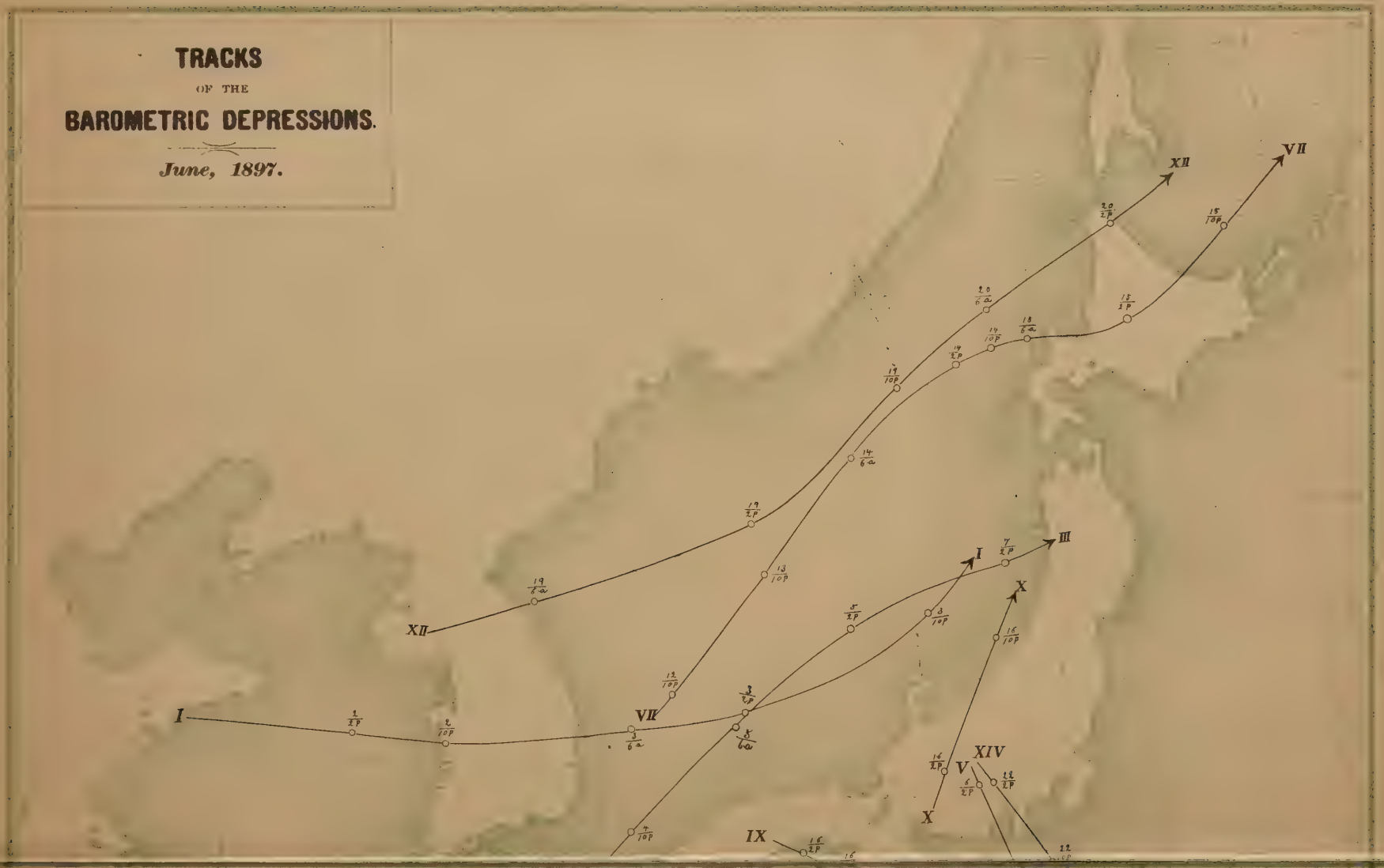
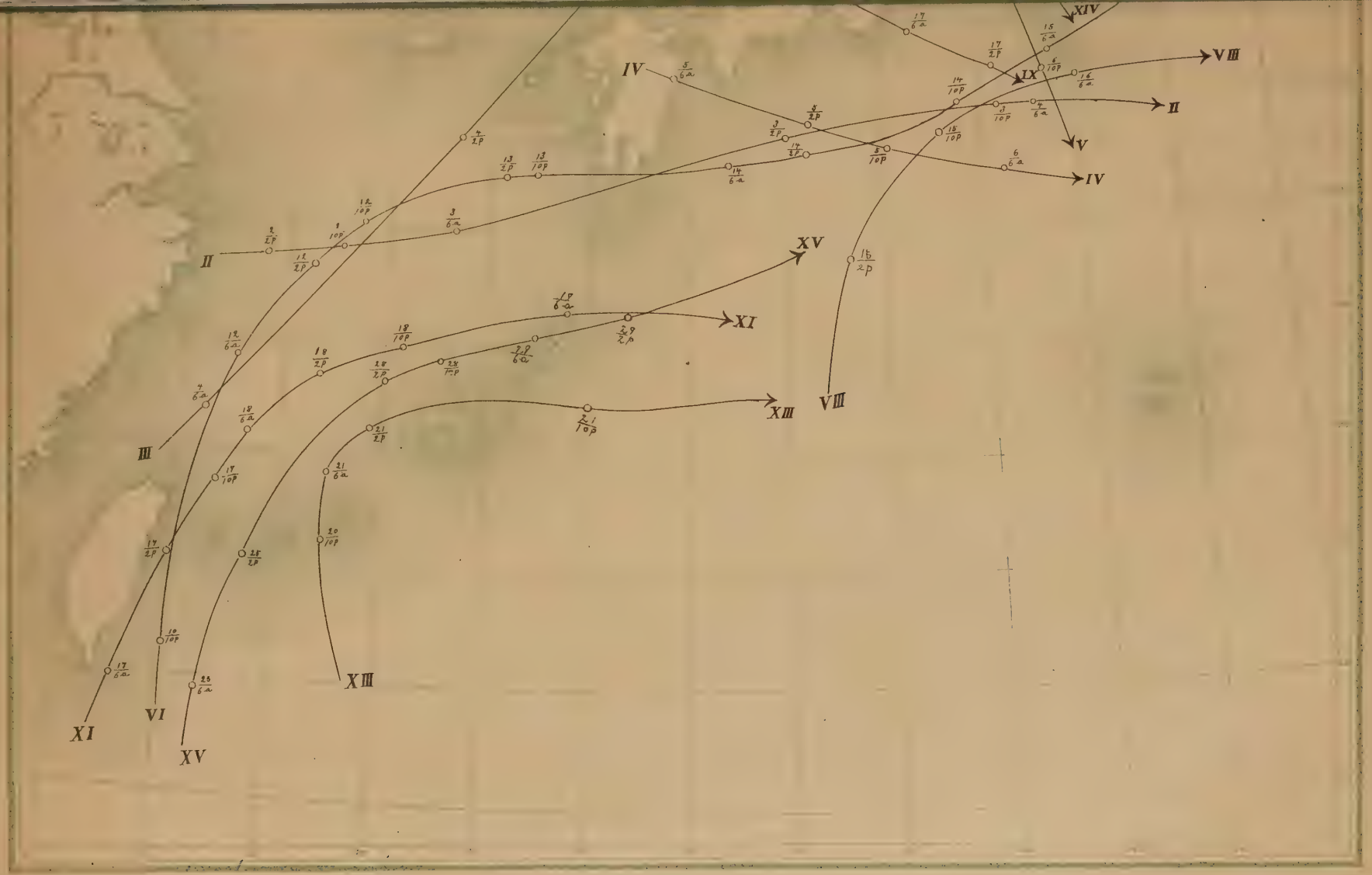
BAROMETRIC DEPRESSIONS.

June, 1897.

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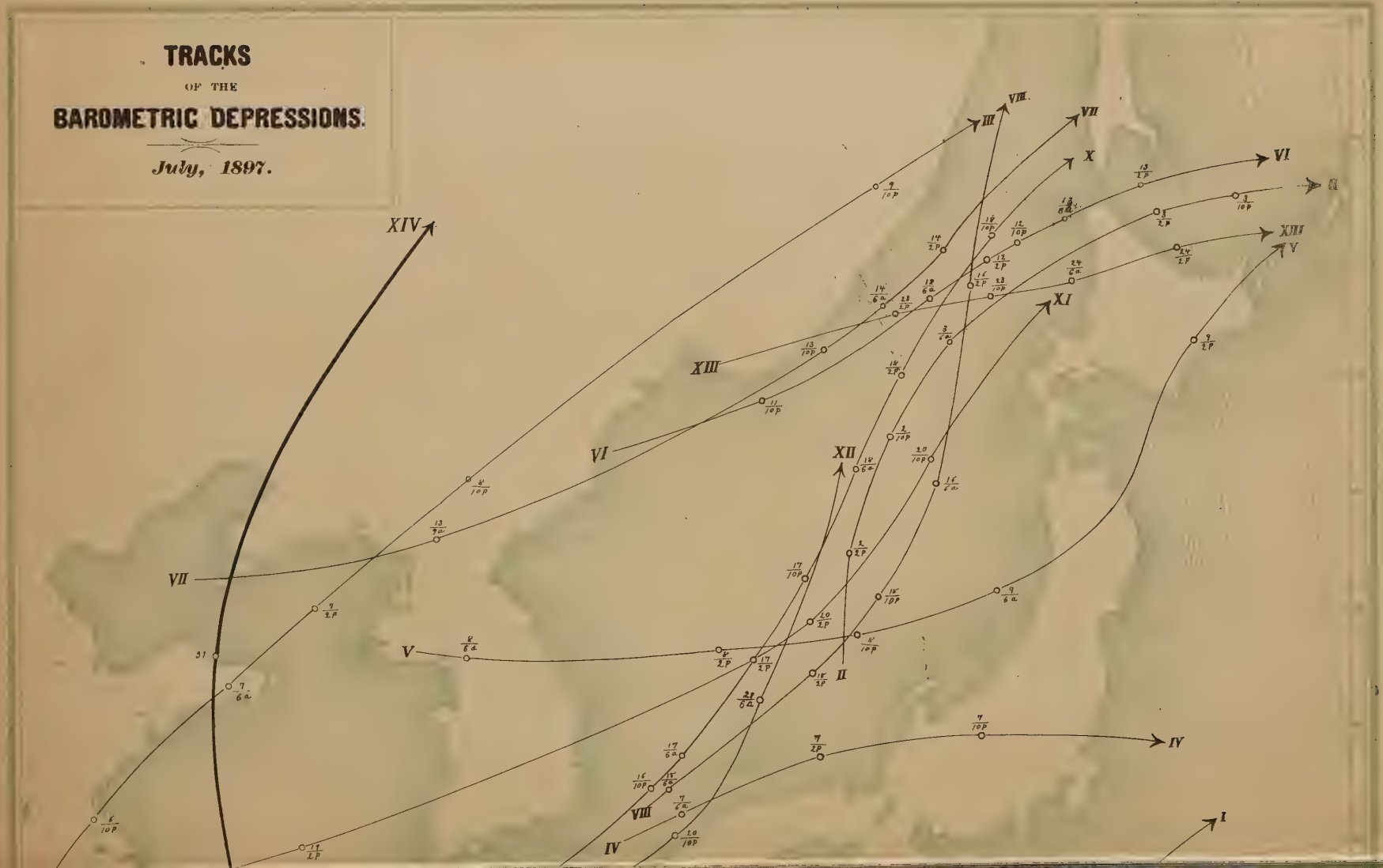

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BAROMETRIC DEPRESSIONS.

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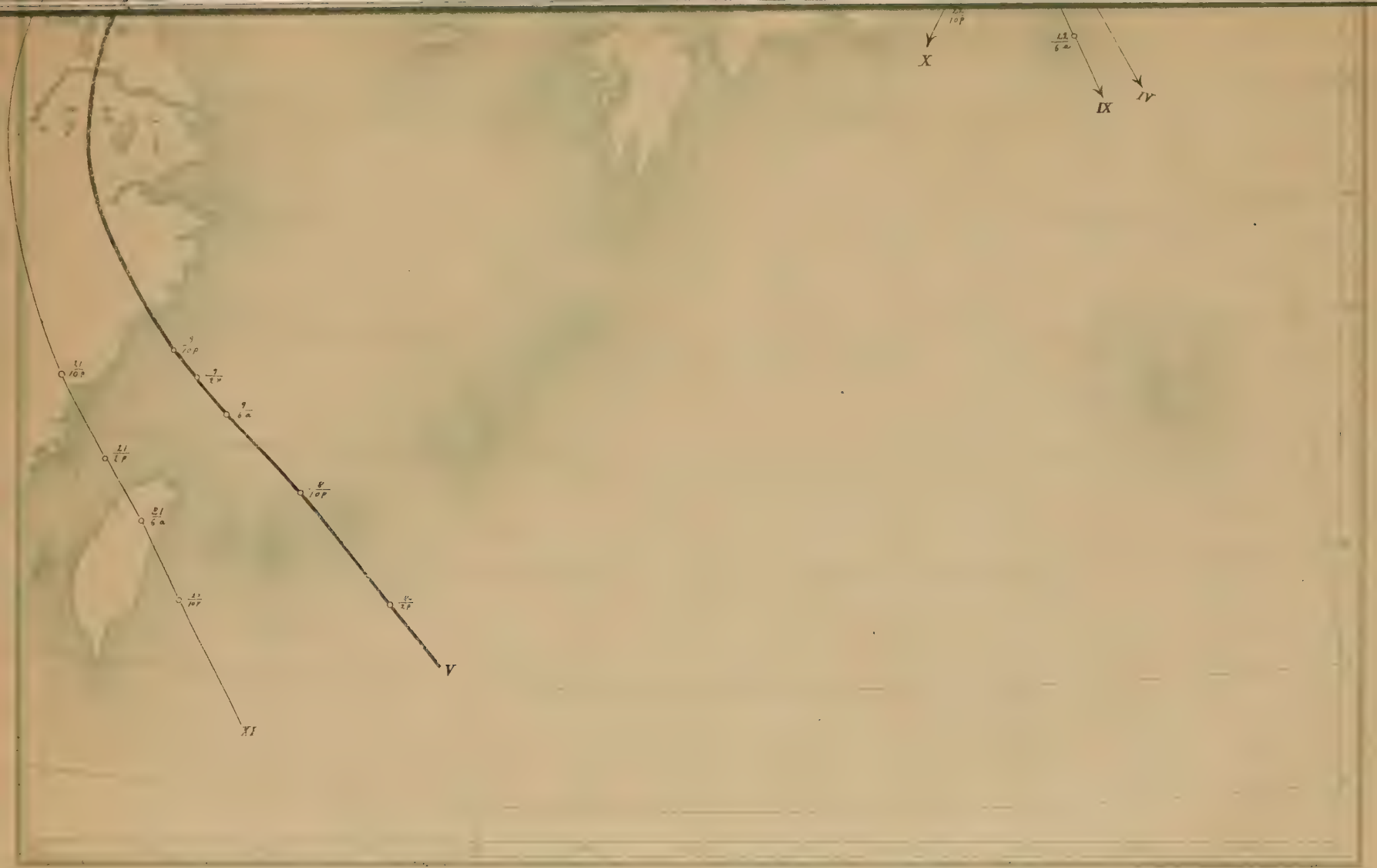
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TRACKS
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BAROMETRIC DEPRESSIONS.

September, 1897.

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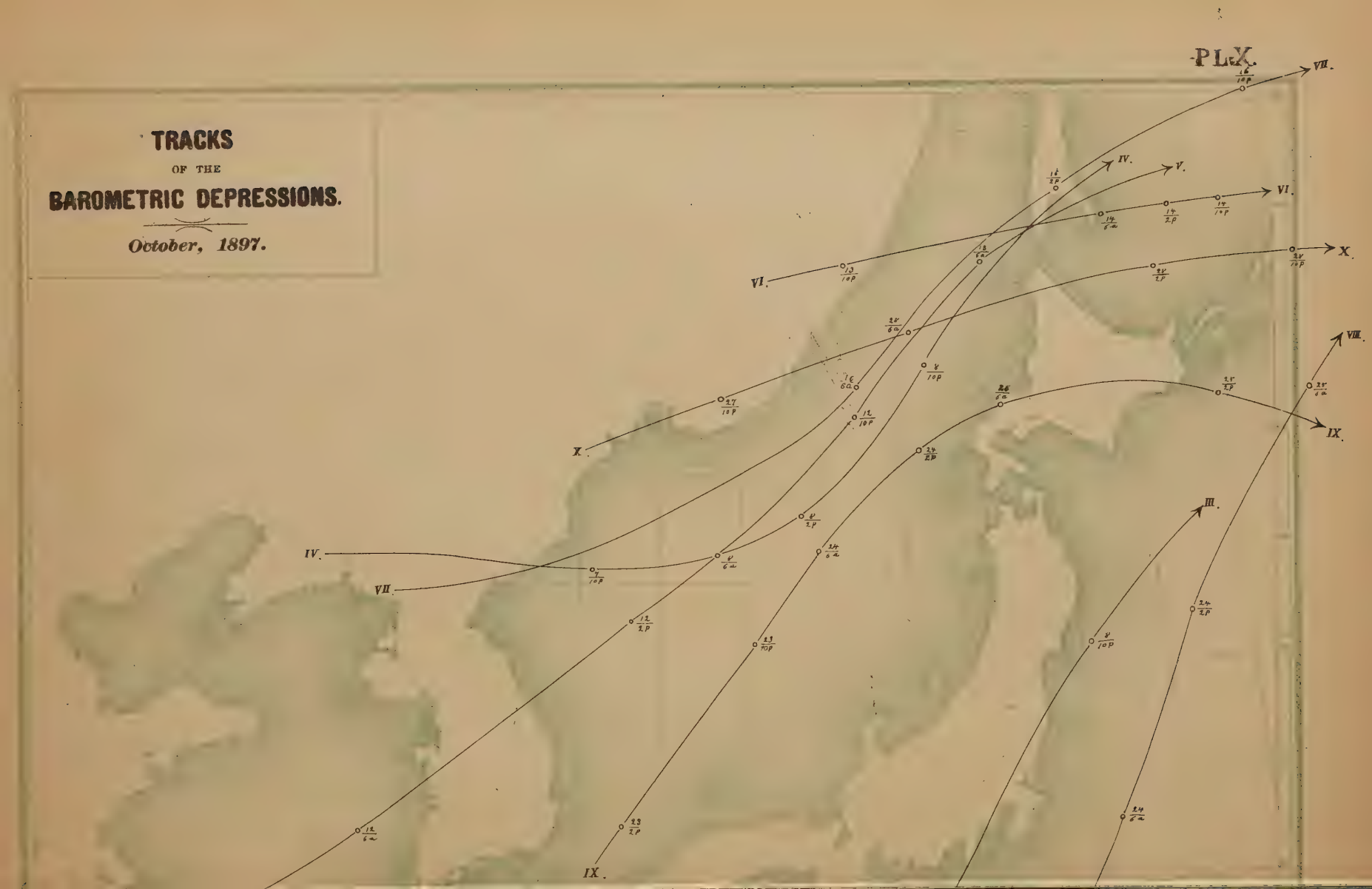
TRACKS
OF THE
BAROMETRIC DEPRESSIONS.

October, 1897.



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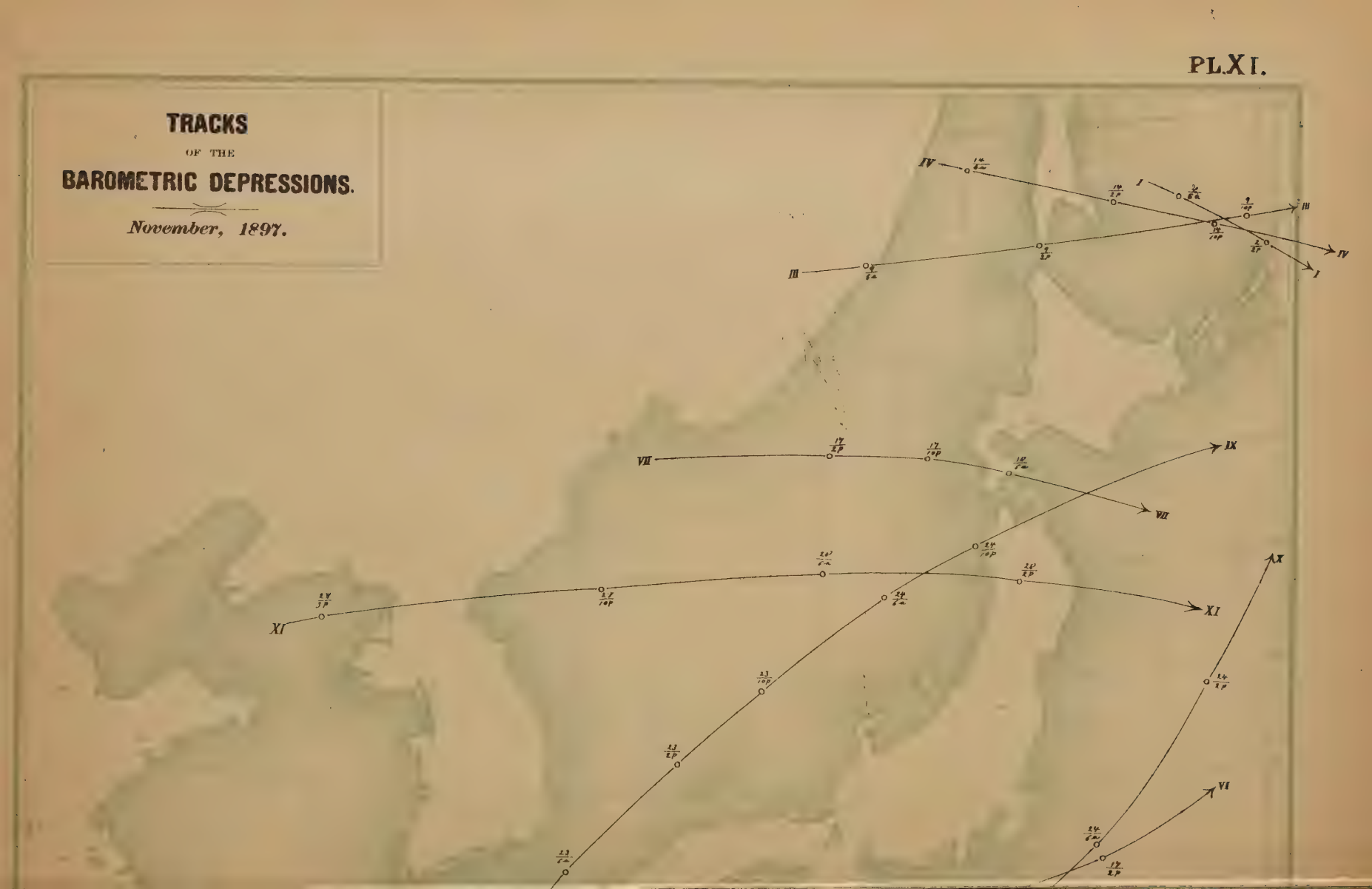
BAROMETRIC DEPRESSIONS.

November, 1897.



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TRACKS
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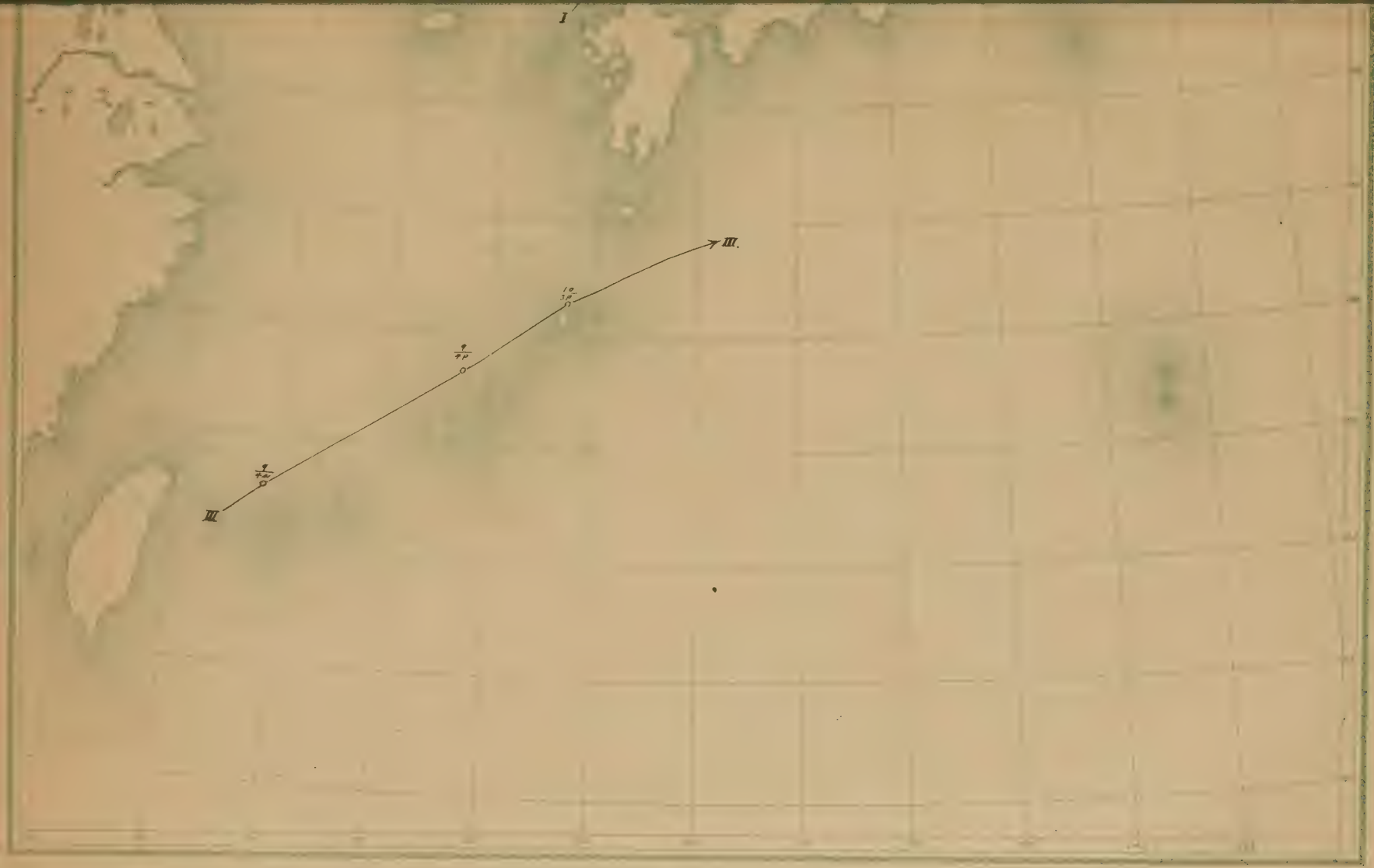
BAROMETRIC DEPRESSIONS.

December, 1897.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ANNUAL REPORT OF THE CENTRAL METEOROLOGICAL OBSERVATORY OF JAPAN

FOR

THE YEAR 1897.

PART II.

ON

THE PRECIPITATION

IN

THE YEAR 1897.

PUBLISHED BY THE CENTRAL METEOROLOGICAL OBSERVATORY.

TOKIO.

1906.

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ON THE PRECIPITATION

IN

THE YEAR 1897.

The present report contains the account of the precipitation observed at several meteorological stations, county offices, town offices, light houses, etc. in the Empire during 1897. The plan of arranging the matters is materially the same as in the preceding year. Thus we begin with the distribution and classification of the raingauge stations in the whole Empire, which is followed by the general account of the precipitation. Lastly there are annexed three tables, of which the first contains the total amount of precipitation in each month and in the whole year, the second the greatest daily amount of rainfall in each month, and the last the number of the days with precipitation.

DISTRIBUTION OF THE RAINGAUGE STATIONS.

In the present year, the whole country is divided into eight large districts, and the raingauge stations are classed according to the basins of the rivers to which they belong, the order of tracing them being first against the main stream from its mouth to its source, then against a branch stream and so on.

The eight districts are as follows :—

I.	Western sea	(Western coast of Kiūsiū).
II.	Southern sea	(From Kiūsiū to Chōshi).
III.	Eastern sea	(From Chōshi to Nemuro).
IV.	Inland sea	(The inland sea enclosed by Shikoku, Central Japan and Kiūshiū).
V.	Sea of Japan	(From Kiūsiū to Sōya Cape). This is further divided into three subdistricts, A the northern coast of

Kiūshiū, B from Nagato to Wakasa, and C coast of Echizen.

VI. Tsugaru Strait.

VII. Okhotsk sea.

VIII. Southwestern Islands, including Formosa.

The total number of raingauge stations was 876, and the increase in the present year over than in the preceding year was 34. Beside these several hundred stations in the Empire, reports were also obtained from 4 Corean Stations and one Siberian Station.

As already described our raingauge stations were consists of meteorological stations; county offices, town offices, village offices, light houses, schools, police offices, engineering inspecting offices, and raingauge station belonging to voluntary observers, so it was very difficult to fix the time of simultaneous observations. Most of them however used 10 a.m. as the observing time.

Thus by a certain day we mean the 24 hours from 10 a.m. of the civil day to 10 a.m. of the next civil day. Meteorological stations of the first order used the midnight, meteorological stations of the second order 10 p.m.; light houses and the meteorological stations belonging to Fishery commission offices the noon as the time of observation. At Fukuoka, Tadotsu, Matsuyama, Ōsaka, Kioto, Gifu, Nagoya, Maebashi stations special observations at 10 a.m. were made besides their usual routines.

GENERAL ACCOUNT OF PRECIPITATION.

In 1897 the greatest yearly amount of the precipitation was 4561 m.m. at Ōtori in Northern Japan. As the next we have 3887 m.m. at Kuzuhara in Mino, 3841 m.m. at Owase in the southeast coast of the Kii peninsula, 3543 m.m. at Shingu in Wakayama prefecture, 3348 m.m. at Mori in Gifu prefecture, 3340 m.m. at Hachiman in Gifu prefecture. The stations where precipitation more than 2000 m.m. was recorded were 181 in number, of these 6 were in I district, 94 in II district, 1 in III district, 2 on the southern coast and 7 on the northern coast of IV district, 2 in V(A) district, 19 in V(B) district, 37 in V(C) district and 13 in VIII district.

The greatest annual amount for each district was as follows :—

I	2628	Todoroki	(Saga prefecture.)
II	3887	Kuzuhara	(Gifu „)
III	2027	Sakari	(Iwate „)

IV(S)	2493	Tomogashima	(Wakayama prefecture)
IV(N)	3064	Kataokamura	(Shiga „)
V(A)	2414	Shirasu	(Fukuoka „)
V(B)	3293	Onsenmura	(Hyōgo „)
V(C)	4561	Ōtori	(Yamagata „)
VI	1769	Shiokubesaki	(Hokkaido „)
VII	662	Shari	(„ „)
VIII	3262	Itsube	(Kagoshima „)

The greatest monthly amount was 1536 m.m. at Kōshun in Formosa. Next to this we have 1144 m.m. at Mori in Gifu prefecture, 1075 m.m. at Kuwao in Kōchi, 1024 m.m. at Kuzuhara in Gifu prefecture, 988 m.m. at Hachiman in Gifu.

The greatest monthly amount for each district was as follows:

I	846 m.m.	(June)	Todoroki	(Saga prefecture)
II	1144 „	(Sept.)	Mori	(Gifu „)
III	820 „	(„)	Tomioka	(Fukushima „)
IV	800 „	(„)	Ezaki	(Hyōgo „)
IV	660 „	(„)	Ikuno	(„ „)
V	658 „	(„)	Izugahara	(Nagasaki „)
V	817 „	(Dec.)	Onsenmura	(Hyōgo „)
V	857 „	(Sept.)	Nishimanonai	(Akita „)
VI	360 „	(Oct.)	Shiokubesaki	(Hokkaido „)
VII	154 „	(Sept.)	Shari	(„ „)
VIII	1536 „	(June)	Kōshun	(Formosa „)

The greatest daily amount was 401 m.m. at Ezaki in Hyōgo.

The greatest daily amount for each district was follows:—

I	239	(July)	Todoroki	(Saga prefecture)
II	280	(Sept.)	Motoyamamura	(Kōchi „)
III	400	(„)	Tomioka	(Fukushima „)
IV(S)	401	(„)	Ezaki	(Hyōgo „)
IV(N)	212	(„)	Ōkunoshima	(Hiroshima „)
V(A)	177	(July)	Soeda	(Fukuoka „)
V(B)	157	(Aug.)	Noki	(Shimane „)
V(C)	233	(July)	Mikuni	(Fukui „)
VI	233	(Oct.)	Shiokubesaki	(Hokkaidō)

VII	64	(Sept.)	Shari	(Hokkaidō prefecture)
VIII	268	(Aug.)	Tainan	(Formosa)

The following table gives the mean monthly as well as annual amounts in several districts :—

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
I	96	71	234	150	152	78	228	225	**322**	57	57	35*	1705
II	124	59	175	191	190	146	203	98	**549**	101	93	18*	1947
III	69	31	75	142	118	94	164	144	**312**	137	71	15*	1372
IV (S)	80	43	159	104	104	110	133	61	**373**	75	49	19*	1310
IV (N)	102	47	143	148	151	152	199	69	**376**	67	68	32*	1554
IV (Total)	96	46	148	137	138	141	182	66	**375**	69	63	29*	1490
V (A)	89	66	180	99	138	75	284	207	**311**	45*	69	54	1617
V (B)	145	91	144	124	152	126	197	152	**368**	75*	109	168	1851
V (C)	123	86	88	137	101	74*	237	216	**343**	143	130	189	1867
V (Total)	126	85*	117	129	119	88	230	196	**347**	115	118	167	1839
VI	87	63	58*	125	107	99	78	139	121	**168**	99	63	1207
VII	46	24*	47	32	40	36	49	42	**143**	87	27	41	614
VIII	135	158	117	143	143	**371**	208	235	265	145	142	110*	2172

In this and the following two tables, the numbers printed in thick letters denote the maxima, and those marked with an asterix the minima.

We calculated the percentages of monthly amounts with respect to the yearly amount, and the result is given in the following table :—

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
I	5.6	4.2	13.7	8.8	8.9	4.6	13.4	13.2	**18.9**	3.3	3.3	2.1*
II	6.4	3.0	9.0	9.8	9.8	7.5	10.4	5.0	**28.2**	5.2	4.8	0.9*
III	5.0	2.3	5.5	10.3	8.6	6.8	12.0	10.5	**22.7**	10.0	5.2	1.1*
IV (S)	6.1	3.3	12.1	7.9	7.9	8.4	10.2	4.7	**28.5**	5.7	3.7	1.5*
IV (N)	6.4	3.0	9.2	9.5	9.8	9.8	12.8	4.5	**24.2**	4.3	4.4	2.1*
IV (Total)	6.4	3.1	9.9	9.2	9.3	9.5	12.2	4.4	**25.2**	4.6	4.2	2.0*
V (A)	5.5	4.1	11.1	6.1	8.5	4.6	17.6	12.8	**19.2**	2.8*	4.3	3.4
V (B)	7.8	4.9	7.8	6.7	8.2	6.8	10.6	8.2	**19.9**	4.1*	5.9	9.1
V (C)	6.6	4.6	4.7	7.3	5.4	3.9	12.7	11.6	**18.4**	7.7	7.0	10.1
V (Total)	6.8	4.6*	6.4	7.0	6.5	4.8	12.5	10.8	**18.9**	6.2	6.4	9.1
VI	7.2	5.2	4.8*	10.4	8.9	8.2	6.5	11.5	10.0	13.9	8.2	5.2
VII	7.5	3.6*	7.6	5.2	6.5	5.9	8.0	6.8	**23.3**	14.2	4.4	6.7
VIII	6.2	7.3	5.4	6.6	6.6	**17.1**	9.6	10.8	12.2	6.7	6.5	5.0*

Thus we see that the month in which the precipitation was richest was September throughout the country with exceptions of VI and VIII districts. In the former of these two districts August was the wettest month of the year, while the latter had abundant precipitation in the month of June. The driest month was December on the pacific coast; February or March on the coast facing the sea of Japan and the Southern Islands.

In the next table are given the average numbers of the days with precipitation in each month and in the year.

District	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
I	17	12	**18**	13	11	7	11	15	15	5*	8	8*	140
II	13	7	14	14	13	12	14	11	**19**	8	8	5*	138
III	9	6*	8	11	10	11	15	13	**16**	10	8	7	124
IV (S)	14	10	16	11	11	9	9	8	**17**	7*	8	7*	127
IV (N)	13	9	14	12	12	9	11	8	**18**	7*	8	7*	128
V (A)	16	13	**17**	10	9	7	12	12	16	4*	9	10	135
V (B)	19	15	18	13	11	10*	13	12	19	10*	12	**20**	172
V (C)	17	14	14	14	12	11*	14	12	19	16	13	**22**	178
VI	14	11	10	11	12	10	10	9*	14	**15**	11	14	141
VII	**17**	13	14	10	8*	13	12	9	12	13	11	16	148
VIII	15	**17**	12	11	10	16	9*	12	13	10	12	13	150

From the above table it will be seen that the days with precipitation were more numerous on the northern coast of the sea of Japan than on the Pacific coast. The coast facing the sea of Japan east from Echizen gave the greatest and the eastern sea coast the least. Except the districts VI and VII the number of rainy days was above average throughout the country.

The departure from the normal is greatest in western sea district and least in Tsugaru strait.

Of the number of the days with precipitation observed in any one station, the greatest was 257 at Ōtori (Prefecture Yamagata), followed by 255 at Tsurugaoka (Prefecture Yamagata), 244 at Niigata (Prefecture Niigata), 242 at Fukui (Prefecture Fukui), Ushizima (Prefecture Akita), 238 at Takanosu (Prefecture Akita).

There were in all 52 stations reporting more than 200 days with precipitation, of which 1 in II, 1 in IV(B), 14 in V(B), 32 in V(C), 1 in VI, and 3 in VIII.

The greatest number for each district is given below :—

I	178	Nagasaki	(Nagasaki prefecture)
II	214	Kobinata	(Gumma „)
III	191	Shibetoro	(Hokkaido)
IV	160	Uwa	(Ehime prefecture)
IV	209	Shinoyama	(Hyōgo „)
V	175	Futsukaichi	(Fukuoka „)
V	232	Mineyama	(Kiotō „)
V	257	Ōtori	(Yamagata „)
VI	214	Aomori	(Aomori „)
VII	194	Sōya cape	(Hokkaidō)
VIII	236	Ishigakizima	(Liukiu)

We shall next give the review of precipitation in each month.

January:— The coast of the sea of Japan had rich precipitation, the amount being 150 mm. to 200 mm., while the pacific side had comparatively scanty rainfall, the amount being 100 mm. and more. In Inland sea region, Kanto plain, Shinshū plateau and Rikuchū rainfall was very scanty and was below 100 mm.

In a portion of Musashi, Shimotsuke and Iwashiro the rainfall was below 50 mm. and in Hitachi the monthly amount was below 20 mm. On the contrary Kii peninsula and Sontheastern portion of Shikoku had generally from 150 mm to 200 mm. In fact, Owase on the eastern coast of Kii peninsula had rich rainfall more than 300 mm.

Formosa was one of the driest portions of the country, and the rainfall in the entire month was below 50 mm.

The greatest monthly rainfall was 337mm. at Ōtori in the northeast Japan; the greatest daily precipitation 139 mm. at Owase on the east coast of Kii peninsula. The greatest number of the days with precipitation was 28 at Takanosu in northeast Japan.

February:— The distribution of the precipitation maintained the characteristics of the winter-type. The coast facing the sea of Japan and the southern sea coast had a rich rainfall, the amount being 100 mm. and more, while the pacific side had a very small share of it, the amount being below 50 mm. The abundant rain fell over back Japan near Uzen, the monthly sum being from 200 mm. to 300 mm. The driest portions of the country were a greater part of Hokkaidō, Shinano plateau and Inlandsea region. In fact the several stations in the latter two districts recorded the monthly rainfall less than 20 mm. The greatest monthly amount was 339 mm. at Itsube in Oshima, an island off southern Kiushū, the greatest daily precipitation 115 mm. at Owase. The greatest number

of the days with precipitation was 26 at Nafa in Liukiu isles.

March.—The distribution of rainfall was entirely free from the characteristics of winter type, and the amount of precipitation increased from east to west rather than from south to north.

Thus the southwestern Isles, Kiushū and Central Japan had rainfall more than 100 mm. in amount, the large portion of the country from Central Japan to Tsugaru Strait had the monthly rainfall from 100 mm. to 50 mm, and in Hokkaidō the amount was below 50 mm.

The most abundant precipitation fell over the southern sea coast, the amount being generally 200 mm. In southeastern portion of Kiushiū, a portion of Shikoku, Southern portion of Kii peninsula and a portion of Mino-Owari the total monthly amount of rainfalls surpassed 300 mm, and in Southern Kiushiū it was over 400 mm. The driest portions were Shinshū plateau and Hokkaidō, the monthly rainfall being less than 50 mm.

The greatest monthly amount was 438 mm. at Owase in the east coast of Kii peninsula. The greatest daily amount was 104 mm. at Kōri. The greatest number of the days with precipitation was 25 at Chizu in Northeast Japan.

April.—The precipitation increased in amount. With an exception of Hokkaido it was rather uniformly distributed, the amount of rainfalls ranging from 100 mm. to 200 mm. Over Mino-Owari and Southern Kii peninsula the excessive rain fell, the monthly amount exceeding 300 mm. In the latter, several localities recorded over 400 mm.

Over the portions of the country surrounded by mountain ranges such as Shinshū plateau, Inlandsea region, a part of Kanto plain and northern Kiushū, the rainfall was comparatively scanty and did not exceed 100 mm. Especially, the interior of Hokkaidō was driest and the rainfall was below 50 mm. The greatest monthly rainfall was 475 mm. Hachiman in Mino. The greatest daily amount was 144. mm. at Kushiro cape in Hokkaidō. The greatest number of the days with precipitation was 22 at Nozima Cape in Bōsō peninsula and at Ōtori in northeast Japan.

May.—A remarkable feature in the rainfall distribution during the month was rich precipitation on the Pacific coast and comparatively scanty rainfalls on the coast facing the sea of Japan. Southeastern Shikoku, Southeastern Kii peninsula and a portion of Mino had abundant rainfalls ranging from 300 mm. to 400 mm. Especially a few localities near Kōchi recorded over 500 mm. On the contrary, northern Hokkaido and Southern Iwashiro were driest portions of the country during the month. Generally the monthly amount was below 50 mm. and several places recorded only less than 20 mm.

In Formosa the western coast was driest and the monthly amount at Kōshun and Hoko Islands (Pescadore Islands) was less than 50 mm.

The greatest monthly amount was 638 mm. at Miwa in Mino.

The greatest daily amount was 213 mm. at Todoroki in Prefecture Saga. The number of the days with precipitation was 21 at Tsunodate in northeast Japan.

June.—The rainfall was rich on the coast facing the Sea of Japan and scanty on the pacific side. In the extreme north and Central Hokkaidō there is no distinct line of demerkation between the both sides of the district. In Formosa the Southern portion was wettest and the northwest portion was comparatively dry. Monthly amount more than 1000 mm. was recorded at a locality in the South.

In the present month, southern portions of Kii peninsula and Southern Island had very rich rainfall, the monthly amount ranging from 300 mm. to 400 mm.

On the contrary, Inlandsea region, the coast of the Sea of Japan near Noto and Echizen, Pacific coast of Rikuzen, Rikuchū and coast of the sea of Okhotsuku the monthly amount was 50 mm. and less.

Greatest monthly amount was 1536 mm. at Koshun in Formosa. Greatest daily amount was 205 at the same locality. The greatest number of the days with precipitation was 22 at Dannokura and Ishigakizima.

July.—The precipitation increased in amount, and the distribution became very complicated. It was abundant in the central Japan and scanty on the coast of Japan Mino and Hida provinces had, as usual, from 500 mm. to 600 mm. Shinshū plateau and Echigo had comparatively rich precipitation, and the several portions had 300 mm. to 400 mm. Southern portion of Kii peninsula had 300 mm. and more. On the contrary, Inlandsea region and Hokkaido received a very little share of rain, the amount being less than 100 mm.

Portions of Hokkaido facing the sea of Japan and Okhotsuk Sea had less than 50 mm. On the former several district had less than 20 mm.

The greatest monthly rainfall was 846 mm. at Todoroki in Saga prefecture. The greatest daily rainfall was 239 at the same place. The greatest number of the days with precipitation was 26 at Kōriyama in Fukushima prefecture.

August.—The arrangement of rainfall was, as in the previous month, so complex that it can not be described in a few lines. The main pecularities, however, were that the coast facing the sea of Japan had abundant rains, while the side towards the pacific was comparatively dry. Thus region near Province Echigo had the rainfall more than

500, while Inland sea region, Owari plain, Bōsō peninsula and the coasts of Hokkaidō had an extremely little rainfall less 50 mm. In fact in the east portion of the Inland sea region and the west of Hokkaido the rainfall was below 20 mm.

In Formosa the precipitation decreased from the southwest towards the east. Tainan received abundant rainfall over 800 mm.

The greatest monthly amount was 889 mm. at Todoroki in Saga prefecture and at Tainan in Formosa. The greatest daily amount was 268 mm. at Tainan.

The greatest number of days with precipitation was 24 at Tsukidate and Ishigaki.

September.—The precipitation increased generally throughout the country. In Hokkaidō where the amount of precipitation is usually small, monthly amount more than 100 m.m. was recorded.

In Inland sea region the monthly amount exceeded 300 m.m. General arrangement of rainfall was rather complicated, it was however abundant in Mino, Hida, southern sea district and was scanty in the extreme north. The excessive rains fell over southeastern Shikoku, Eastern Kii peninsula, Mino, Hida districts and the portions of the country along Suruga bay, the monthly amount being from 300 m.m. to 1000 m.m. The driest portion of the country was western Hokkaido, the amount being 20 m.m.

In general, the distribution of rainfall in the present month was far from the uniform, and difference of the greatest and least was very striking.

The greatest monthly amount was 1144 m.m. at Mori in Prefecture Gifu. The greatest daily amount was 401 m.m. at Ezaki in prefecture Hyogo. The greatest number rainy days was 29 at Nishimanonai in province Akita.

October.—The rainfall was considerably smaller than in the preceding month. In general it was below 100 m.m. except in central and southern Kiushiū and Kishu peninsula. Even in northeast Japan where the rains were usually abundant, the total amount was from 100 m m. to 200 m.m.

The distribution of rainfalls was rather uniform. It was however rich in the northeastern portion of Honshu, and scanty in the southeast.

The most abundant precipitation fell over the coast of the sea of Japan near Uzen exceeding 400 m.m. The region of most scanty rainfall was northern Kiushū, Yamashiro, Settsu, Shinshū plateau, the total monthly rainfall being below 50 m.m.

The greatest monthly precipitation was 482 m.m. at Ōtori in Northeast Japan, and the greatest daily rainfall was 233 m.m. at cape Shiokube in Hokkaidō.

The greatest number of rainy days was 27 at Yasutsuka in Prefecture Niigata.

November.—The distribution of rains was of winter type. Thus the precipitation was very rich on the coast of the sea of Japan, the amount being over 100 m.m. and scanty on the pacific coast. The most abundant precipitation fell over the coast of sea of Japan near Uzen, the total amount ranging from 300 m.m. to 400 m.m. The driest portions were central Kiushū, Inland sea region and Central Hokkaidō, the amount being below 50 m.m.

The greatest monthly amount was 417 m.m. at Ōtori and the greatest daily precipitation 229 m.m. at Ishigaki in Liukiu group. The greatest number of the days with the precipitation was 21 at Taihoku in Formosa and Ōtori in Northeastern Japan.

December.—In the present month, the winter type of the distribution was pronounced and there was a striking contract in the amount of rainfall on both sides of the central mountain ranges. Thus, on the side facing the sea of Japan the rainfall was generally above 200 m.m., especially the central portions had 400 m.m. and more. On the contrary the pacific side had 20 m.m. and less. In the vast plain of Kanto and the east coast of Japan we had no single drop of rain throughout the entire month, while on the back Japan total precipitation more than 700 m.m. was recorded at several localities in Uzen.

The greatest monthly precipitation was 817 m.m. at Onsenmura in Hyōgo prefecture, and the greatest daily precipitation 85 m.m. at Nakakōchi in Shiga prefecture. The greatest number of the days with precipitation was 31 at Hatta in Shimane prefecture, Kasaoka in Akita prefecture, Nashiro in the same prefecture where we had not a single day without precipitation.

Year.—The distribution of precipitation in the present year did not differ materially from the normal. Thus the coasts of the sea of Japan and the southern sea coasts had abundant precipitation more than 2500 m.m., while the Inland sea region and Hokkaidō had a very scanty share of the rainfall, the amount being below 1000 m.m. The most abundant precipitation fell over Echizen, Hida and the southeastern portions of Kishū peninsula, the amount exceeding 3000 m.m. On the eastern coast of Kishū peninsula rains more than 3500 m.m. fell at Owase. In general the precipitation was, as usual, very rich on the sides facing the sea, and scanty over the regions surrounded by the high mountain chaines. In Formosa the rainfall was great on the east coast and small on the west.

第一表 明治卅年降水總量表 Table I.

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第一區 西海	**I. WESTERN SEA.**												
1	大瀬崎 Ōsesaki.	77	58	140	60	65	41	160	140	244	23	66	16	1090
2	福江 Fukue.	181	76	284?	147	336?	102	128	236	298	31	58	62	1939
3	古志岐島 Koshikishima.	35	34	112	69	108	29	127	173	189	26	52	30	983
4	平戸 Hirato.	118	47	232	119	209	57	282	159?	294	60	102	70	1750
5	佐世保 Saseho.	94	72	208	133	202	55	253	317	347?	40	68	27	1818
6	瀬戸 Seto.	112?	78	218?	98?	232?	82?	202	254?	337	44?	78	94	1829
7	長崎 Nagasaki.	101	86	234	163	204	60	146	193	573	62	79	37	1939
8	伊王島 Iwōshima.	105	77	243	146	171	69	129	181	632	61	72	76	1962
9	陸ノ尾島 Kagenooshima.	66	122	227	141	144	52	129	195	504	59	61	58	1759
10	口津 Kuchinotsu.	86	109	338	467	139	64	143	183	388	72	82	14	2085
11	島原 Shimabara.	93	76	265	177	148?	49	120	97?	294?	86	64	13?	1484
12	諫早 Isohaya.	94	83	245	152?	183	66	142	295	333?	63	53	71	1782
13	大村 Ōmura.	83	91	248	108?	133	61	116	406?	197?	38?	49	68	1598
14	高津原 Takatsubara.	61	74	223	93	122	70	253	294	230	28	35	41	1523
15	武雄 Takeo.	96	8	216	117	166	57	271	456	260	21	44	48	1759
16	小城 Ogi.	87	57	203	116	209	47	272	344	250	46	31	14	1678
	筑後川 Chikugo-gawa.													
17	榎津 Enokitsu.	69	56	216	125	141	55	240	170	249	42	36	44	1442
18	久留米 Kurume.	78	77	207	132	165	71	348	252	245	44	44	43	1708
19	久留米 Kurume.	68	49	174	113	149	53	333	282	220	41	25	35	1545
20	轟木 Todoroki.	92	69	233	118	284	81	846	394	400	42	53	18	2628
21	善導寺 Jendōji.	82	62	205	124	143	68	253	236	351	38	50	39	1651
22	甘木 Amaki.	82	73	185	132	135	63	415	233	313	37	43	24	1735
23	吉井 Yoshii.	86	73	213	127	115	132	241	162	356	40	30	32	1608
24	宮原 Miyahara.	198	65	238	151	123	110	333	216	267	66	35	28	1831
25	福島 Fukushima.	84	75	239	122	113	69	190	195	323	50	47	39	1546
26	佐賀 Saga.	69	60	221	121	192	45	296	171	271	13	30	14	1505
27	古湯 Furuyu.	113	84	263	163	252	93	296	370	382	64	70	70	2221
28	神崎 Kanzaki.	76	61	211	110	136	64	349	317	225	50	37	60	1698
29	森 Mori.	80?	56	189	113	112	82	177	170	184	148	39	21	1371
	矢部川 Yabe-gawa.													
30	柳河 Yanagawa.	62	66	260	114	122	52	209	180	304	51	41	41	1503
31	黒木 Kuroki.	92	74	222	130	136	97	240	166	293?	41	45	15	1552
32	三池 Miike.	107	65	226	118	116	28	145	149	236	56	40	32	1318
	菊地川 Kikuchi-gawa.													
33	瀬高 Takase.	77	57	205	105	128	55?	162	127	190	70	42	48	1266
34	鹿府 Yamaga.	81	48	205	165	115	66	200	167	357	90	52	35	1582
35	隈府 Waifu.	106	48	202	90	108	109	239	94	213	51	39	16	1315
	白川 Shira-kawa.													
36	春日 Kasuga.	100	72	224	143	99	71	187	130	230	70?	44	22	1394
37	熊本 Kumamoto.	87	70	231	134	96	72	226	141	256	69	43	11	1438
38	大津 Ōtsu.	—	—	—	—	—	—	—	—	—	—	51	25	—
39	吉田 Yoshida.	95	76?	320	169	167	89	204	194	283	93	63	23	1776
40	宮地 Miyaji.	100	47	276	177	127	102	204?	188	257	85	58	15	1637
41	濱町 Hamamachi.	111	75	264	201	96	114	223	319	276	66?	83	22	1851
42	御船 Mifune.	100	65	255	161	83	103	247	147	242	70	66	29	1567
43	木山町 Kiyama.	—	—	—	—	—	—	—	—	—	—	52	12	—
44	原町 Haramachi.	—	—	—	—	—	—	—	—	—	—	91	39	—
45	宇土 Uto.	98	70	238	156	94	84	217	151	240	66	48	27	1489
46	松橋 Matsuhashi.	93	67	229	153	82	82	228	166	231	66	64	22	1485
47	山口 Machiyamaguchi.	91	77	274	128	110	57	184	252	376	57	80	40	1725
48	戸島 Toshima.	—	—	—	—	—	—	200	291	520	41	34	35	—
49	佐敷 Sashiki.	100	68	238	199	121	158	116	201	321	77	59	11	1667
	球磨川 Kuma-gawa.													
50	八代 Yatsushiro.	88	119	243	142	55	97	133	113	311?	64	65	21	1451
51	人吉 Hitoyoshi.	119	59	235	219	191	51	217	142	347	103	47	14	1715
52	多良木 Taraki.	—	—	—	—	—	—	—	—	—	—	91	39	—
	川内川 Sendai-gawa.													
53	東手 Higashite.	103	90	310	215	202	88	134	335	387	55	98	30	2047
54	里 Sato.	121	68	332	257	219	171	353	333	581	44	52	0	2531

第一表 明治卅年降水總量 粍

TABLE I. AMAUNT OF PRECIPITATIN IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第一區 西海ノ續						**I. WESTERN SEA.—Continued.**							
	川内川ノ續 Sendai-gawa. (*Continued.*)													
55	加久藤 Kakuto.	118	67	264?	151	188	137	293?	162	323?	....	43	14	....
56	郡 Kōri.	114	114	296	—	—	—	—	—	—	—	—	—	—
57	武田 Takeda.	—	—	—	245	181	110	220	256	519	103	115	57	—
58	長崎鼻 Nagasakihana.	—	—	—	—	—	84	236	297	434	90	71	35	—
59	釣掛崎 Tsurikakesaki.	160	113	200	260	235	112	103	361	502	31	116	47	2241
	第二區 南海						**II. SOUTHERN SEA.**							
1	久保田 Kubota.	115	59	234	173	204	88	179	151	416	98	81	30	1827
2	鹿兒島 Kagoshima.	103	69	225	202	203	88	177	177	412	97	83	19	1855
3	中名 Nakana.	67	68	279	180	173	117	381	225	399	115	117	5	2127
4	佐多岬 Satanomisaki.	91	72	152	125	128	125	171	96	291	129	209	20	1609
5	西方 Nishikata.	89	51	249	177	191	201	220	38	329	135	33	1	1715
6	鹿崎 Kurasaki.	114	75	197	113	193	151	73	26	315	186	180	11	1635
7	小飫肥 Obu.	84	48	379	171?	347	336	220	86	370	82	61	16	2199
	大淀川 Ōyodo-gawa.													
8	宮崎 Miyazaki.	131	68	372	197	202	183	187	75	409	117	49	10	2000
9	高岡 Takaoka.	117	52	336	184	209	140	182	116	358	67	26	6	1793
10	都城 Miyakonojō.	114	46	239	192	188	149	197	187	463	90	57	10	1935
11	北俣 Kitamata.	54?	42	286	187?	211?	142	209	137?	398	43	20	7	1737
12	須木 Suki.	116	62	340	182?	217?	103	260	125	389	71	33	12	1910
13	細野 Hosono.	99?	59	235?	213	235	117	288	195	371	69	30	6	1917
14	大牟田 Ōmuda.	102	64	322	219	216	97	215	214	446	87	45	10	2037
15	田野 Tano.	115	64	341	172?	157	131	240	116	469	81	47	10	1944
	佐土原川 Sadowara-gawa.													
16	村所 Murasho.	135	60	336	219	241	160	315	96	391	87	32	14	2086
17	鹿野田 Kanoda.	138	52	196?	163?	201	131	220	114	360	90	25	13	1705
	高鍋川 Takanabe-gawa.													
18	高鍋 Takanabe.	137?	44	354	168?	265	123	213	116	373	113	33	7?	1946
19	神門 Kado.	124	70	372	159?	207	185	226	....	....	....	....	....	....
20	田代 Tashiro.	108	62	270?	141?	164	159	206	170	350	88	35	....	....
21	下福良 Shimofukura	122	73	329	204	233	166	273	109	381	109	51	27	2078
22	細島 Hososhima.	139	40	329	156?	204	98	138	97	419	97	35	8	1759
	五箇瀬川 Gokase-gawa.													
23	岡富 Okatomi.	126	32	307	165	249	103	153	42	405	87	36	6	1712
24	七折 Nanaori.	90	40	257	136	162	131	200	80	348	85	38	8	1576
25	三田井 Mitai.	97	52	309	193	131	159	155	91	327	86	43	21	1667
26	三ヶ所 Sangasho.	91	74	227?	142?	120	146	92?	148	319	111	62	20	1555
27	馬見原 Mamihara.	92	55	257	151?	112	148	187	186	356	106	54	24	1728
28	下直見 Shimonaomi.	78	37	196	92	130	70	89	121	423	83	35	3	1358
29	佐伯 Saheki.	41?	....	....	....	....	....	....	....	....	73	37?	5?	....
30	平城 Heijō.	—	—	—	—	—	—	—	—	349	91	106	21	—
31	八幡濱 Yawatahama.	85	48	177	100	117	31	50	57	366	75	50	20	1176
32	宇和島 Uwajima.	86	64	201	113	103	37	69	63	436	86	71	29	1359
33	清水 Shimizu.	251	80	248	127	236	126	136	41	671	15	148	3	2082
	渡川 Watari-gawa.													
34	中村 Nakamura.	175	92	279	161	165	29	15	167	666	97	42	20	1908
35	川崎 Kawasaki.	94	89	197	143	143	90	133	41	378	47	113	10	1479
36	田野々 Tanono.	254	82	198	158	172	117	74	83	284	118	11	22	1574
37	窪川 Kubokawa.	108	162	300	203	366	196	172	120	702	153	66	15	2563
38	檮原 Iṣohara.	123	87	261	163	217	79	160	114	371	123	54	30	1782
39	興野々 Okinono.	92	80	216	143	158	58	83	57	457	107	47	27	1525
40	須崎 Susaki.	—	—	—	—	—	—	—	35	651	75	107	5	—
	仁淀川 Niyodo-gawa.													
41	伊野 Ino.	124	131	123	212	307	114	207	129	543	133	72	4	2099
42	越知 Ochi.	155	99	165	....	....	....	82	118	592	104	31	0	....

第一表 明治卅年降水總量 Table 1.

TABLE 1. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第二區 南海ノ續 II. SOUTHERN SEA.—Continued.													
	仁淀川ノ續 Niyodo-gawa. (*Continued.*)													
43	久主 Kusu.	169	99	225	131	191	93	150	88	550	111	48	80?	1936
44	久萬町 Kumamachi.	157	91	172	132	137	133	169	67	403	87	73	49	1671
45	高知 Kōchi.	103	125	280	250	363	115	316	219	730	125	46	0	2673
46	桑尾 Kuwao.	184	94	226	268	508	204	301	214	1075	123	44	7	3251
47	上野尻 Kaminojiri.	157	109	236	262	214	53	264	77	728	39	29	0	2168
48	大栃 Ōdochi.	214	138	198	299	242	156	345	162	829	59	48	16	2705
49	安藝 Aki.	—	—	—	—	—	—	—	64	541	115	31	0	—
50	田野 Tano.	124	89	214	170	128	100	35	48	498	347	5	0	1758
51	津呂 Tsuro.	283	97	239	63	122	84	42	60	505	109	26	13	1643
52	宍喰 Shishikui.	—	—	—	—	414	184	264	54	744	221	35	5	—
53	神野 Kamino.	—	—	—	—	304	219	163	196	797	177	42	—	—
54	日和佐 Hiwasa.	191	164	258	268	252	202	341	121	806	115	40	5	2763
	那賀川 Naka-gawa.													
55	富岡 Tomioka.	164	55	174	186	204	168	264	93	583	95	34	3	2023
56	和食 Wajiki.	278	102	257	177	214	224	160	216	864	129	27	3	2650
57	小松島 Komatsujima.	155	38	169	125	130	250	145	34	677	86	16	1	1826
	吉野川 Yoshino-gawa.													
58	德島 Tokushima.	116	37	160	100	130	190	85	27	666	92	30	5	1639
59	東名 Tōnatō.	105	26	135	83	143	182	106	61	642	105	32	6	1626
60	石井 Ishii.	90	21	118	80	63	177	109	58	635	93	49	7	1501
61	川島 Kawashima.	67	28	110	77	101	135	51	91	378	92	27	6	1165
62	市場 Ichiba.	63	16	124	92	80	123	82	56	530	95	24	7	1293
63	脇町 Wakimachi.	61	33	103	67	69	118	88	72	334	74	25	12	1056
64	池田 Ikeda.	52	39	58	62	112	108	93	45	391	70	44	40	1114
65	本山 Moloyama.	162	67	238	212	301	147	110	139	901	141	43	14	2477
66	川井 Kawai.	113	105	100	120	149	180	113	109	425	145	29	....	....
67	南濱 Minamihama.	80	21	125	91	58	216	100	5?	432	34	17	11	1191
68	小桑島 Kokuwashima.	98	26	141	97	105	232	136	12	468	48	20	53	1394
	紀ノ川 Kino-kawa.													
69	和歌山 Wakayama.	105	48	131	194	79	164	275	18	567	59	83	9	1733
70	清水 Shimizu.	89	44	93	182	71	112	254	6	452	56	62	10	1430
71	野上 Nogami.	87	46	93	174	79	137	228	24	533	61	60	18	1541
72	橋本 Hashimoto.	96	50	91	195	61	117	175	46	434	71	51	16	1403
73	慶賀野 Keikano.	101	44	138	208	59	110	159	71	400	68	58	23	1439
74	五條 Gojō.	106	58	114	210	101	120	158	32	396	61	43	21	1420
75	和田 Wada.	—	—	—	—	—	—	—	—	427?	60	60	24	—
76	吉野山 Yoshinoyama.	86?	56	132	208	132	137	164	98	421	54	64	31	1584
77	上市 Kamiichi.	104	52	125	192	105	129	160	67	402	57	24?	23	1443
78	柏木 Kashiwagi.	140	71	174	205?	151	93?	199	83	357	....	197	....	....
79	鷲家口 Washiyaguchi.	—	—	—	—	—	—	—	—	—	—	41?	30	—
80	神野市場 Ainoichiba.	126	84	139	258	134	132	283	44	580	91	86	28	1987
81	高野山 Kōyasan.	143	83	154	286	170	152	351	51	532	86	86	41	2135
82	東富貴 Higashifuki.	99	52	90	139	58	105	286	61	524	57	65	34	1571
	有田川 Arita-gawa.													
83	吉原 Yoshiwara.	117	65	141	241	157	128	329	79	724	77	69	22	2150
84	清水 Shimizu.	149	76	131	280	146	137	356	82	719	86	70	41	2272
(81)	高野山 Kōyasan.	143	83	154	286	170	152	351	51	532	86	86	41	2135
85	湯淺 Yuasa.	139	65	132	221	151	125	288	46	617	78	87	16	1967
	日高川 Hitaka-gawa.													
86	御坊 Gobō.	173	81	134	178	132	173	162	22	594	123	76	33	1872
87	高津尾 Takatsuo.	146	94	167	273	212	201	354	115	764	76	97	31	2532
88	東 Higashi.	165	125	172	357	250	236	364	212	830	92	78	35	2918
89	田邊 Tanabe.	170	86	139	193	167	141	214	52	587	95	88	19	1950
90	栗栖川 Kurisukawa.	184	105	169	328	189	302	224	271	729	87	108	34	2731
91	安居 Ago.	165	123	204	248	214	329	184	57	775	101	159	28	2588
92	潮岬 Shiomisaki.	243	178	318	339	250	231	224	125	685	173	177	3	2947

第一表　明治卅年降水總量 粍

TABLE I.　AMOUNT OF PRECIPITATION 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續	II. SOUTHERN SEA.—Continued.												
93	櫻下日野崎	181	132	263	280	260	267	180	94	665	164	182	3	2675
94	櫻下日中之岬	207	172	370	341	266	284	345	86	699	107	125	19	3022
95	櫻下日	188	79	153	208	165	165	214	30	686	117	71	6	2082
	新宮川	Shingu-gawa.												
96	新宮	254	137	296	375	375	404	402	27	817	234	212	9	3543
97	新宮	189	100	266	325	213	342	290	130	866	124	114	9	2969
98	本宮	152	102	167?	246	184	189	358	191	839	80	114	15	2638
99	小森	160	91	183	277	176	167	424	127	737	71	92	24	2530
100	川津	131	101	133	265	136	102?	234	127	495?	48?	78	49	1899
101	南日高山	—	—	—	—	—	....	361	116	647	....	—	—	....
102	大塔川	146?	149?	147?	278	178	....	—	—	—	....	81	54	....
103	玉置川	189	82?	196	337	200	257	397	123	866	120	122	16	2906
104	大沼	198	86	307	318	223	226	251	102	869	125	190	8	2904
105	寺垣内	198	89	299	323	285	225	372	142	914	119	179	7	3151
106	河合	170	68	264	242	213	179	307	172	722	94	113	9	2553
107	木本	187	76	325	270	309	262	244	111	687	199	163	0	2834
108	大鷲	307	156	433	280	416	354	296	63	905	368	260	2	3841
109	紀伊乘崎	133	128	236	235	222	102	156	77	701	105	174	0	2272
110	菅島	145	79	240	214	200	198	156	50	648	129	228	2	2289
111	答羽	222	27?	272	302	250	188	198	28	756	134?	233	8	2618
112	鳥田	217	89	278	264	238	165?	172	54	673	151	215	8	2526
	櫛田川	Kushida-gawa.												
113	西黒部	126	41	216	192	168	141	164	15	534	92	134	9	1833
114	相可	156	61	196?	231	225	115	164	44	696	98?	151	6	2142
115	松坂	131?	43	253	176?	155?	151	179	36	611	95	129	6	1966
116	久居	131?	53	220	189	194	147	141	8?	588	88	90	2?	1851
117	津	104	70	230	226	173	133	144	32	664	80	87	1	1943
118	古河	126	40	229	224	192	129	135	25	696	83	90	8	1978
119	白子	141	47	178	212	129	147	102	42	552	86	89	11	1736
120	亀山	138?	49	254	221	228	183	135	16	533	86	75	14	1933
121	四日市	146	58	214	147?	217	141	168	77	781	50?	89	4?	2092
122	四日市	46	47	200	194	253	136	225	33	694	87	94	1	2011
	員辨川	Inabe-gawa.												
123	桑名	140	39	223	196	151	....	....	....	....	....	....	....	....
124	楚原	167	65	281	248	287	147	226	56	709	86	98	25	2896
	木曾川	Kiso-gawa.												
(123)	桑名	140	39	223	196	151	....	....	....	....	....	....	....	....
125	前ヶ須	138	39	216	193	203	174	161	40	666	79	93	16	2019
126	津島	143	40	213	190	231	135	161	31	717	78	100	21	2061
127	笠松	160	33	231	192	259	117	183	57	611	83	110	56	2093
128	犬山	123	33	207	178	233	109	194	66	654	97	102	28	2027
129	太田	131	24	213	207	229	78	207	150	....	73?	105	15	....
130	中津川	42	3	43	30	203	8	232	62	474	58	59	1	1215
131	吾妻	124	48	176	253	175?	204	449	225	634	101	159	34	2585
132	長野	203	95	279	256	179	136?	385	193	716	114	127	41	2725
133	駒ヶ根	—	—	—	—	—	—	332	—	—	94	117	2	—
134	福島	133	40	....	....	....	77	363	96	709	85	137	21	....
135	瀧王子	177	78	193	307	166	95	495	163	882?	113	113	36	2819
136	開田	152	44	163	211	143	96?	461	106	770?	96	99	21	2363
137	高須	181	42	218	174?	197	131	208?	111	795	63	102	43	2267
138	高田	166	51	205	217	430	169	267	72	661	80	130	93	2542
139	大垣	175	16?	211?	192	316	165	240	110	649	83	99	76	2335
140	垂井	232	44	230	276	467	149	292	94	703	93	130	191	2902
141	三輪	99	42	213	308	638	237	373	152	752	98	126	93	3131
142	德山	197	96	243	267	334	128	315	122	681	70	142	73?	2668
143	岐阜	145	39	238	206	268	121	265	97	628	91	106	67	2273
144	上有知	122	32	187	193	288	97	324	88	647	104	27	44	2152
145	八幡	175	62	289	475	275	111	501	114	988	144	145	60	3340
146	白鳥	192	68	210	341	261	127	587	184	700	118	182	136	3107
147	北方	157	51	234	224	311	141	269	122	657	96	113	98	2475
148	長峰	227	67	283	336	278	190	338	268	849	117	216	58?	3227
149	高富	122	53	262	245	359	129	303	185	722	105	100	72	2656

第一表 明治卅年降水總量 粍

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續 II. SOUTHERN SEA.—Continued.													
	木曾川ノ續 Kiso-gawa.													
150	葛原 Kuzuhara.	183	82	311	382	415	164	567	268	1024	138	175	178	3887
151	御嵩 Mitake.	142	43	220	168	246	69	234	170	565	97	115	21	2090
152	金山 Kanayama.	149	45	212	300	264	147	390	228	978	106	112	44	2974
153	森 Mori.	142	47	200	291	244	128	600	272	1144	122	125	33	3348
154	萩原 Hagihara.	—	—	—	—	—	—	—	—	—	—	116	39	—
155	關ヶ原 Sekigahara.	201	63	212	174	331	172	284	77	533	69	142	247	2507
156	稻澤 Inasawa.	142	35	225	196	223	126	197	89	674	83	115	20	2075
157	島 Shima.	134	33	241	196	222	187	169	75	609	87	107	32	2092
	庄內川 Shonai-gawa.													
158	下小田井 Shimo-odai.	128	32	209	180	194	128	134	30	591	75	107	16	1824
159	勝川 Kachikawa.	128	33	212	182	185	114	138	45	485	78	120	17	1737
160	高山 Takayama.	117	31	176	163	218	75	203	54	340	89	118	23	1607
161	寺野 Terano.	—	—	—	180	212	124	177	54	605	79	114	15	—
162	布袋野 Hoteno.	137	30	218	175	220	111	170	47	600	88	108	26	1931
163	瀨戶 Seto.	131	32	234	200	181	96	155	20	480	81	129	14	1753
164	名古屋 Nagoya.	144	35	228	191	187	221	96	32	576	85	111	16	1921
165	熱田 Atsuta.	148	41	197	190	178	249	119	34	514	75	123	13	1883
166	大野 Ono.	137	39	171	173	177	210	135	21	524	79	118	10	1797
167	小鈴谷 Kosuzuya.	141	41	172	175	178	121	237	15	515	95	127	12	1829
168	豐濱 Toyohama.	124	41	167	147	165	128	126	9	406	65	113	11	1501
169	半田 Handa.	153	45	171	170	177	210	143	27	464	92	133	14	1799
170	知立 Chiriu.	157	39	172	157	174	142	118	68	439	72	116	10	1663
	矢作川 Yasaku-gawa.													
171	西尾 Nishio.	159	34	150	160	182	104	129	15	475	74	126	14	1622
172	岡崎 Okazaki.	130	35	148	171	191	114	103	20	422	74	114	17	1540
173	唐母 Karomo.	139	36	142	163	168	81	116	45	387	80	118	15	1492
174	上 Kami.	111	55	155	219	216	33	256	151	246	80	133	27	1681
175	龜穴 Kameana.	165	42	188	244	302	128	141	162	547	91	131	24	2166
176	足助 Asuke.	155	37	165	208	213	77	120	47	444	74	138	17	1695
177	一色 Isshiki.	134	32	157	165	183	123	130	9	483	76	121	13	1626
178	佐久島 Sakushima.	124	28	156	145	182	77	141	2	466	62	128	11	1522
179	御油 Goyu.	130	40	191	180	258	154	121	8	465	78	116	15	1757
	豐川 Toyo-kawa.													
180	豐橋 Toyohashi.	124	37	191	207	271	123	110	3	476	79	100	15	1737
181	豐富岡 Tomioka.	145	46	206	264	277	104	107	32	687	101	118	19	2106
182	新城 Shinshiro.	116	40	203	255	333	202	120	54	655	101	123	24	2226
183	田口 Taguchi.	203	77	227	298	299	125	259	109	607	139	150	24	2518
184	清岳 Kiyo-oka.	179	73	263	289	364	122	169	126	758	128	164	32	2668
185	堀切 Horikiri.	135	61	165	162	194	110	148	5	581	76	120	16	1773
186	濱松 Hamamatsu.	89	71	219	215	322	174	93	82	695	94	103	2	2156
	天龍川 Tenriu-gawa.													
187	掛塚 Kakezuka.	—	—	—	190	320	80	100	43	611	....	....	....	....
188	二俣 Futamata.	129	55	205	310	294	113	146	123	727	79	107	—	2288
189	下田 Shimoda.	141	51	171	277	248	107	174	154	586	95	138	22	2163
190	飯田 Iida.	....	47	....	....	....	....	....	68	492	83	117	6	....
191	伊那 Ina.	91?	60?	100	236	103	52	244	98	449?	75	83	8	1598
192	朝日 Asahi.	79?	....	53	176	....	....	264?	84	541	42?	96?	1	....
193	上諏訪 Kamisuwa.	83	21	78	118	97	71	256	101	448	43	65	1	1385
194	北山 Kitayama.	66	37	90	187	77	122	221	125	496	30?	126	0	1576
195	御前崎 Omaisaki.	95	117	280	175	257	78	99	68	761	91	86	0	2108
196	島田 Shimada.	120	63	200	261	339	118	206	112	768	94	58	—	2339
	富士川 Fuji-kawa.													
197	岩淵 Iwabuchi.	157?	99	169	300	195?	107?	282	110	932	104	97?	0	2553
198	横根中區 Yokonechiuku.	74	77	104	201	127	60	50?	65	456	70	80?	0	1365
199	印澤 Inzawa.	....	....	166	119	65	126	....	....	....	....	....	....	....
200	鰍澤 Kajikazawa.	100?	....	88	178	121	....	....	....	....	....	....	....	....

第一表　明治卅年降水總量 粍

TABLE I.　AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續													
	II. SOUTHERN SEA.—Continued.													
	富士川ノ續 Fuji-kawa. (*Continued.*)													
201	住吉 Sumiyoshi.	90	35	44	115	69	92	....	76	427	....	72	....	....
202	鵜飼 Ugai.	....	....	....	....	....	....	....	85	....	....	....	....	....
203	駒飼 Komagai.	....	....	33	....	....	....	....	103	248?	90	70	....	....
204	小原西分 Koharanisnibun.	97	27	49	87	62?	144	99	158	313	75	76	0	1186
205	甲府 Kōfu.	81	44	43	107	64	79	124	60	444	86	68	0	1201
206	龍王 Riuō.	76	34	59	138	81	111	100	11	329?	92	71	0	1103
207	御嶽 Ontake.	....	32	102	128	69?	195?	152	117	382	82	106	....	....
208	韮崎 Nirasaki.	98	41	54	139	64?	136	117	56	393	91	85	0	1274
209	若神子 Wakamiko.	85	....	54	115	73	86	....	28?	311	82	68	....	....
210	白須 Shirasu.	77	....	53	149	107	138	214	40	391	....	26	0	....
211	湯島 Yushima.	141	88	116	198	184	....	208	46	541	....	31	0	....
212	西湖 Nishinoumi.	67	....	66	195	181?	133	174	117	622	112	96	....	....
213	古關 Koseki.	90	....	....	....	....	8?	11?	4?	....	....	....	....	....
214	富士見 Fujimi.	93?	31	100	200	163	104	214	124	534	90	128	15	1795
215	大宮 Omiya.	151	80	133	....	....	....	....	....	....	....	....	....	....
216	長濱 Nagahama.	56	....	58	182	158	147	177?	109	657	117	89	....	....
217	谷村 Yamura.	122	55	51	145	142	50?	123?	73	499	129	87	0	1475
218	猿橋 Saruhashi.	....	19	30	....	....	....	....	....	....	....	....	....	....
	狩野川 Kano-gawa.													
219	沼津 Numatsu.	111	99	122	262	194	88	186	42	819	108	66	1	2100
220	本立野 Hontachino.	169	57?	113	244	238	....	....	....	....	....	....	....	....
221	長津呂 Nagatsuro.	87	80	148	223	140	88	104	103	391	55?	57?	12	1488
222	石室崎 Irosaki.	94	82	242	177	126	114	96	100	439	72	65	15	1623
223	神子元島 Mikomotoshima.	31	19	62	103	99	69	89	95	908	246	101	20	1842
224	熱海 Atami.	147	95	127	273	322	147	198	69	752	94	79	2	2305
225	城ヶ島 Jōgashima.	154	55	184	79	137	46	29	26	312	31	20	0	1074
226	劒崎 Tsurugisaki.	50	85	106	142	194	79	103	53	437	97	63	0	1409
227	觀音崎 Kannonsaki.	109	116	193	239	213	143	227	35	590	208	168	0	2242
228	横須賀 Yokosuka.	103	97	163	265	231	157	176	40	679	133	123	1	2170
229	横濱 Yokohama.	175	81	123	260	232	141	294	37	687	162	131	0	2324
230	横濱 Yokohama.	110	59	97	195	174	118	231	31	609	119	98	0	1841
	多摩川 Tama-gawa.													
231	羽田 Haneda.	60	21	56	138	93	127	151	32	433	89	71	0	1272
232	大師河原 Daishigawara.	93	46	98	189	123	145	199	36	507	119	98	—	1652
233	八王子 Hachiōji.	105	62	78	159	189	161	208	123	528	118	101	0	1866
234	千ヶ瀬 Chigase.	99	43	55	160	207	219	295	183	429	123	107	—	1920
235	丹波山 Tanbayama.	—	—	—	—	—	195	147	....	....	....	....	....	....
236	品川 Shinagawa.	141	110	116	224	152	187	210	93	579	194	151	—	2160
	荒川 Ara-kawa.													
237	東京 Tōkiō.	88	47	81	161	120	145	142	76	398	132	106	0	1497
238	浦和 Urawa.	59	39	58	120	113	110	159	176	383	118	95	0	1429
239	熊谷 Kumagaya.	76	30	....	....	....	....	....	....	....	....	....	....	....
240	熊谷 Kumagaya.	50	45	50	111	104	164	111	109	376	115	101	0	1336
241	大宮郷 Omiyagō.	100	5?	26	88	137	97	168	129	240	128	66	0	1183
242	飯能 Hanno.	80	42	49	139	190	186	156	93	403	107	96	0	1542
243	真壁 Mera.	—	—	—	—	—	118	139	58	384	192?	90?	4	....
244	野島崎 Noshimasaki.	93	99	198	223	151	151	152	58	378	196	84	7	1791
245	犬吠崎 Inuboyesaki.	135	91	250	199	122	112	193	31	624	179	136	6	2079
	利根川 Tone-gawa.													
246	銚子 Chōshi.	95	79	200	160	100	90	167	37	521	163	132	7	1752
247	關宿 Sekiyado	91	38	72	86	99	144	122	194	382	108	96	0	1432
248	前橋 Mayebash.	65	18	40	104	103	182	185	87	364	104	98	0	1351
249	澁川 Shibukawai.	62	16	49	120	107	132	185	151	360	123	104	—	1411
250	沼田 Numada.	55	28	64	106	48	164	148	147	352	92	96	13	1314
251	日向 Kobinata.	68	63	77	162	90	190	205	208	430	172	127	53	1845
252	小下館 Shimodate.	78	31	94	152	86	176	124	209	506	102	115	0	1673
253	真岡 Maoka.	19	31	70	152	69	137	196	87	382	92	103	—	1341
254	宇都宮 Utsunomiya.	58	51	103	188	82	250	191	202	401	99	103	0	1727

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番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續						**II. SOUTHERN SEA.—Continued.**							
	利根川ノ續 Tone-gawa. (*Continued*)													
255	日光 Nikkō.	—	—	—	—	—	—	254	357	573	201	116	1	—
256	鹿沼 Kanuma.	57	31	81	160	148	282	141	215	364	132	57	0	1668
257	栃木 Tochigi.	47	29	59	141	129	225	224	187	402	99	102	0	1644
258	佐野 Sano.	70	41	44	112	145	264	323	130	324	93	95	0	1643
259	館林 Tatebayashi.	69	28	82	140	112	191	108	112	397	109	100	0	1449
260	足利 Ashikaga.	13	43	55	70	91	122	106	110	352	89	74	—	1126
261	太田 Ōta.	48	14	43	120	100	150	98	156	343	71	55?	—	1200
262	桐生 Kiriu.	66	19	60	128	86	230	138	143	387	121	101	—	1479
263	輪羽 Hanawa.	60	27	71	142	115	222	187	349	520	107	93	—	1894
264	崎勢 Isezaki.	81	18	57	116	137	137	212	221	342	128	103	—	1553
265	場馬 Mamba.	61	10	25	83	107	171	212	213	408	118	81	0	1491
266	岡藤 Fujioka.	65	17	20	112	141	171	136	128	391	106	102	—	1390
267	岡富 Tomioka.	72	12	22	81?	162	183	176	100	271	49?	48	1	1179
268	田仁下 Shimonita.	63	14	31	101	139	142	219	264	365	75	106	0	1519
269	崎高 Takasaki.	44?	15	33	109	117	187	200	75	302	76?	97	0	1255
270	中安 Annaka.	64	4?	40	96	135	168	267	104	369	91	117	—	1455
271	倉ノ三 Sannokura.	68	14	52	142	176	232	418	241	435	97?	125	—	2000
272	賀川須 Sukagawa.	92	29	79	102	61	159	291	308	....	....	....	....	....
273	條ノ中 Nakanojō.	74	29	52	127	143	183	162	204	350	108	101	—	1533
274	津草 Kusatsu.	71	58	91?	181	....	....	176	282	396	120	106	17	....
	第三區 東海						**III. EASTERN SEA.**							
	那賀川 Naka-gawa.													
1	水戸 Mito.	77	50	109	198	118	69	150	157	439	152	181	1	1703
2	矢板 Yaita.	61	40	92	209	114	196	180	260	420	171	88	—	1831
3	太田原 Ōtawara.	74	38	106	200	139	254	247	277	408	112	93	—	1949
4	大子 Daigo.	51	47	147	212	103	136	179	242	377?	119	111	0	1724
5	棚倉 Tanagura.	108	48	96	229	74	69	171	229	503	61	....	....	....
6	平 Taira.	56	61	162	200	199	148	204	82	91	42	71	—	1318
7	岡富 Tomioka.	89	9	136	128	45	106	153	91	820	26	143	—	1751
8	村中 Nakamura.	83	8	101	198	100	88	157	39?	204?	163?	89	—	1232
	阿武隈川 Abukuma-gawa.													
9	田角 Kakuda.	71	17	96	156	124	170	228	86	441	199	78	11	1679
10	折桑 Kōri.	61	2?	77	12?	62	92	213	89	374	124	112	43	1263
11	島福 Fukushima.	60	30	91	146	81	68	203	125	431	143	99	25	1502
12	本二松 Nihonmatsu.	72	14	102	155	70	11	190	185	373	136	56	1	1366
13	春三 Miharu.	59	15	68	124	77	79	150	196	319	27	10	16	1140
14	山郡 Kōriyama.	10?	....	21?	....	....	97	308	214	479	179	107	10	....
15	川須賀 Sukagawa.	49	23	101	146	94	132	221	175	456	92?	100	1	1592
16	川河石 Ishikawa.	67	9?	7?	14?	3?	16?	19?	6?	43?	1?	2?	0	182
17	河白 Shirakawa.	46	29	84	194	23	196	286	182	486	81	68	1	1677
18	河原大 Ōkawara.	68	31	98	175	149	44	240	65	453?	197?	82	14	1617
	名取川 Natori-gawa.													
19	町長 Nagamachi.	40?	19	83	112	127	44	249	150	486	169	82	18	1579
20	臺仙 Sendai.	54?	25?	84	227	184	43	218	152	516	157	100	20	1782
21	臺仙 Sendai.	68	30	86	206	143	82	239	244	450	153	89	13	1806
22	目ノ南 Minaminome.	76	30?	76	196	154	66	285	147	462?	159	92	14	1757
	鳴瀬川 Naruse-gawa.													
23	川古 Furukawa.	67	30	28	142	92	18?	166	146	440	102	32?	11	1275
24	岡吉 Yoshioka.	93	45	96	262	183	51	326	194	467	156	96	26	1995
	北上川 Kitakami-gawa.													
25	巻石 Ishinomaki.	64	25	96	165	178	43	192	177	332	174	86	3	1536
26	川野飯 Iinokawa.	18?	13?	38?	....	52?	31?	43?	193	322?	117	....	....	....
27	關ノ一 Ichinoseki.	59	22	66	71	49	19	127	169	232	42	57	40	956
28	澤水 Mizusawa.	69	51	82	148	132	128	147	319	453	156	94	67	1847
29	巻花 Hanamaki.	105	71	82	151	140	131	210	342	329	226	116	51	1956
30	岡盛 Morioka.	88	56	91	174	176	156	217	285	207	153	104	33	1740
31	谷涌 Wakuya.	65	32	51	169	156	64	201	202	398	141	41	9	1528
32	川古 Furukawa.	67	30	28	142	92	18?	166	146	440	102	32?	11	1275

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	第三區 東海ノ續						**III. EASTERN SEA.—Continued.**							
	北上川ノ續 Kitakamigawa. (*Continued*).													
32	佐沼 Sanuma.	31?	....	20?	104?	157	78	137	208?	359	82	75	4	....
33	築館 Tsukidate.	....	27?	70?	169?	194	92	318	328?	373?	....	49	23	....
34	遠野 Tōno.	75	48	83	196	134	94	113	306	179	95	83	29	1435
35	金花山 Kinkwasan.	141	19	108	165	126	58	231	122	338	189	91	1	1592
36	本吉 Motoyoshi.	91?	15?	42?	....	116?	38?	48?	35?	237?	75?	57	....	....
37	盛 Sakari.	97	63	125	262	271	142	155	223	363	206	117	2	2027
38	宮古 Miyako.	179	10	58	207	173	67	106	151	320	190	96	7	1563
39	久慈 Kuji.	140	9	40	212	125	66	105	126	254	150	167	10	1405
	馬淵川 Mabuchi-gawa.													
40	三戸 Sannohe.	76	20	38	149	95	90	129	122	223	139	103	25	1209
41	福岡 Fukuoka.	99	20	74	151	112	57	147	94	158	160	106	46	1226
42	七戸 Shichinohe.	135	41	39	118?	92	188	105	139	262	173	115	134	1541
43	下帶廣 Shimo-obihiro.	28	35	36	97	94	96	127	46	123	148	33	8	871
44	白糠 Shironuka.	76	40	31	44	93	70	95	47	86	....	....	....	....
45	舌辛 Shitakara.	21?	16?	29?	30?	....	115	144	107	108	94	0	0	....
	釧路川 Kushiro-gawa.													
46	釧路崎 Kushirozaki.	48	49	132	202	161	183	197	70	201	208	15	1	1468
47	標茶 Shibecha.	67	40	114	140	145	117	73	60	147	153	20	4	1080
48	大黒島* Daikokushima.*	42	13	27	16	141	113	146	21	199	194	27	2	940
49	落石崎 Otchishisaki.	45	54	159	140	167	200	153	87	309	206	24	4	1550
50	納沙布崎 Nashiafsaki.	28	15	37	32	66	66	29	24	99	133	7	3	539
51	辨天島 Bentenshima.	113	71	99	41	155	125	62	72	152	172	19	8	1090
52	根室 Nemuro.	44	20	54	53	96	83	54	52	156	119	11	5	747
53	別海 Bekkai.	55	33	36	36	86	37	88	58	66	64	2	3	563
54	計羅武威岬 Keramuimisaki	30	19	99	93	146	153	139	86	256	264	12	7	1304
55	泊 Tomari.	47	18	25	56	92	110	89	3	117	216	17	1	789
59	蘂取 Shibetoro.	48	41	36	79	43	32	51	44	62	84	6	18	544
	第四區 內海						**VI. INLAND SEA.**							
	甲 南岸					a			*S. Coast.*					
1	部崎 Hesaki.	145	117	234	122	109	82	416	219	336	26	76	54	1937
2	行事 Gioji.	70	73	180	87	153	63	365	211	284	42	46	34	1610
3	椎田 Shiita.	55	63	213	96	132	76	362	103	344	43	35	24	1546
4	戸原 Tohara.	50	68	229	74	110	121	186	77?	273?	47	43	10?	1289
5	中津 Nakatsu.	55?	56?	91?	40?	121	51?	190	315	520	107	27	11	1585
6	四日市 Yokkaichi.	60	51?	175	87	85?	62	152?	150?	277	53	30	10	1193
7	龍王 Riuō.	57	66	213	103	70	55	172	128	304	64	45	25	1304
8	玉津 Tamatsu.	60	52?	183	55?	65?	64	130	77	258	51	39	18	1053
9	鶴川 Tsurukawa.	67	48?	196	84	150	31?	111?	73	241?	57	26	16	1100
10	日出 Hide.	47?	39?	171?	88	102?	55	81?	71?	172?	55	18	5	904
	大分川 Oita-gawa.													
11	大分 Oita.	67	53	195	105	108	81	78	54	311	75	41	4	1172
12	高岡 Takaoka.	99	45	251	98	126	70	107	68	281	70	31	....	....
	大野川 Ono-gawa.													
13	市場 Ichiba.	72?	49?	224?	100	100?	63	116	82?	341	81	34	8	1270
14	竹田 Taketa.	31?	39?	98?	36	30?	66	148	81	336	140	36	18	1059
15	臼杵 Usuki.	78	46?	257?	118	74?	68	67?	30	440	59?	35	4	1277
	肱川 Hiji-kawa.													
16	大洲 Ōzu.	111	60	152	129	140	43	45	39	239	61	44	22	1087
17	卯ノ町 Unomachi.	115	78	226	107	129	37	124	76	423	110	72	37	1536
18	郡中 Gunchu.	71	48	126	111	87	81	115	60	294	78	61	26	1158
19	松山 Matsuyama.	85	43	137	112	92	82	101	37	291	73	77	22	1158
20	三津濱 Mitsuhama.	98	34	144	101	89	84	105	49	236	71	80	12	1104
21	釣島 Tsurishima.	86	47	129	121	102	61	137	52	286	83	71	3	1179
22	大下島 Ōgeshima.	95	57	160	88	77	145	180	29	360	74	74	1	1342
23	波止濱 Hashihama.	85	35	127	112	87	116	128	37	345	71	73	12	1228
24	今治 Imabaru.	92	43	128	115	93	131	71	49	405	87	79	8	1300

厚岸灣 * Gulf of Akkeshi.

第一表 明治卅年降水總量 表一第

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 甲 内海ノ續 南岸ノ續 IV. INLAND SEA.—Continued. a S. Coast.—Continued.													
25	西條 Saijo.	77	40	126	96	90	91	69	33	415	81	53	8	1180
26	多喜濱 Takihama.	61	30	123	....	....	....	....	39	463	101	54	9	....
27	三島 Mishima.	—	—	—	111	99	112	68	20	473	95	53	21	—
28	川ノ江 Kawanoe.	85	37	119	—	—	—	—	—	—	—	—	—	—
29	大野原 Onohara.	....	....	....	....	....	....	....	43	397	....	....	....	....
	財田川 Takarada-gawa.													
30	觀音寺 Kwanonji.	....	19	....	....	85?	87	....	37	....	64	....	32	....
31	財田上 Takaradakami.	88	28	141	127	101	80	68	54	381	77	39	43	1228
32	七個 Shichika.	87	32	132	120	108	118	72	47	375	84	42	43	1260
33	大濱 Ōhamaura.	74	25?	....	....	....	....	....	....	....	....	....	....	....
34	多度津 Tadotsu.	78	24	143	90	111	142	89	29	419	68	39	22	1255
35	稻木 Inaki.	—	—	—	—	—	125	69	21	430	73	37	17	—
36	岡田下 Okadashita.	77	26	136	99	95	129	72	27	377	81	33	19	1171
37	琴平 Kotohira.	90	31	147	111?	110	109?	59	65	396?	79	46	37	1281
38	宇多津 Udatsu.	64	30	127	98	110	134	113	36	424	70	35	27	1267
39	坂出 Sakaide.	77	22	84?	44?	102	120	....	....	....	....	....	....	....
40	坂出 Sakaide.	....	....	132	92	94	....	....	....	....	....	....	....	....
41	新名 Shinmei.	83	23	152	108?	97	140	84	49	383	85	44	27	1275
42	所西 Sogishonishi.	80	27	138	109	103	155	73	62	425	85	45	31	1332
43	原下 Yasuharashimo.	81	29	142	112	107	168	65	49	402	92	50	38	1337
44	松 Takamatsu.	79	22	133	101	80?	141	125	11	349	68	57	17	1184
45	尾西 Nagaonishi.	75?	22	102?	99	90	154	63	17	383	79	32	13	1129
46	庄 Tonoshō.	68	20	136	90	112	215	113	2	351	56	37	10	1210
47	鍋島 Nabeshima.	83	31	166	102	107	136	124	38	337	74	40	20	1259
48	男木島 Ogishima.	86	50	154	120	103	162	121	4	418	81	51	11	1362
49	松原 Matsubara.	87	26	135	108?	107	210	91	3	426	127	34	7?	1362
50	江崎 Yesaki.	94	34	217	195	194	250	209	4	800	66	74	10	2146
51	吉ケ島 Tomogashima.	166	55	211	263	151	293	416	8	721	96	108	3	2493
	第四區 乙 内海ノ續 北岸 IV. INLAND SEA.—Continued. b N. Coast.													
1	壇浦 Dannoura.	99	94	192	100	186	98	366	188	315	67	61	55	1822
	木屋川 Kiya-gawa.													
2	上保木 Kamiboki.	120	79	197	119	154	138	380	213	280	92	80	82	1903
	厚東川 Kotō-gawa.													
3	太田 Ota.	111	74	175	125	149	158	283	60	367	18	9	17	1546
4	嘉萬上郷 Kamakamigō.	152	95	194	143	192	183	301	153	335	59	72	95	1974
	椹野川 Fushino-gawa.													
5	山口 Yamaguchi.	93	79	204	....	211	163	308	197	342	83	75	....	....
6	三田尻 Mitajiri.	80	49	208	133	177	158	293	107	219	111	40	16	1591
7	室積 Murotsumi.	68	48	189	146	169	124	172	66	274	59	57	22	1395
	錦川 Nishiki-gawa.													
8	岩國 Iwakuni.	98	40	158	43?	199	164	271	73	195?	29?	72	1?	1344
9	鹿野上 Kanokami.	131	98	295	151	169	252	331	175	311	133	68	57	2171
10	大竹 Ōtake.	119	38	180	146	220	198	227	79	341	80	53	10?	1692
11	津田 Tsuda.	91	49	178	130	230	241	222	117	342	74	58	43	1777
12	廿日市 Hatsukaichi.	72	50	125	26?	82	111	202	91	521	53	50	13?	1395
	太田川 Ōta-gawa.													
13	廣島 Hiroshima.	90	40	132	113	190	232	204	109	319	62	47	8	1547
14	可部 Kabe.	98	43	127	100	166	176	160	120	252	50	51	6	1350
15	加計 Kake.	103	43	135	100	174	191	209	154	352	56	84	85	1688
16	井原 Ihara.	28	125	34	39	38	236	162	84	301	16	61	88	1213
17	戸河内 Togauchi.	95	54	100	68	141	57	188	247	356	44	55	46	1452
18	東八幡 Higashiyawata.	49	38	31	....	....	....	....	....	....	....	....	....	....
19	政所 Seisho.	....	166?	146	141	148	180	131	71	158	43	51	96	....
20	和吉 Yoshiwa.	....	31	184	169	204	209	263	241	314	142	82	40	....
21	上瀬野 Kamiseno.	—	—	—	—	148	192	204	123	317	69	54	15	—
22	吉浦 Yoshiura.	77	29	130	103	133	133	244	46	259	39	32	....	....
23	呉 Kure.	94	44	136	120	146	137	222	40	273	73	50	1	1336

第一表　明治卅年降水總量 粍

TABLE I.　AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 甲　内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. a　N. Coast.—Continued.												
24	南方 Minamikata.	67	26	99	72	92	137	172	58	189	37	51	14	1015
25	西條 Saijō.	114	34	131	118	139	190	175	73	252	68	57	19	1369
26	竹原 Takehara.	79	52	130	85	112	148	218	56	314	47	86	8	1336
27	大久野島 Ōkunoshima.	65	40	101	58	118	88	163	47	642	96	55	1	1474
28	忠海 Tadanomi.	95	28	108	81	125	127	156	36	315	57	38	6	1173
29	戸野 Tono.	110	31	97	93	152	176	160	103	250	73	52	12	1313
30	乃美 Nomi.	65	39	108	28	232	181	19	47	322	....	....	....	....
31	尾道 Onomichi.	115	25	135	63	127	103	108	47	269	35	28	4	1060
32	松永 Matsunaga.	78	70	124	91	138	135	130	54	293	68	29	1	1213
33	百貫島 Hiakkwanshima.	77	40	124	99	97	60	133	52	312	59	25	8	1085
34	鞆 Tomo.	112?	44	116	68	120	111	118	30	319	50	31	10	1130
	蘆田川 Ashida-gawa.													
35	福山 Fukuyama.	114	22	97	78	129	144	109	24	278	69	28	9	1100
36	府中市 Fuchuichi.	129	25	128	79	148	207	126	37	237	62	24	12	1215
37	甲山 Kōzan.	131	18	125	77	122	199	152	....	175	54	38	32	....
38	市村 Ichimura.	104	56	106	68	214	132	129	47	278	43	45	14	1238
39	江木 Yeki.	128	24	118	97	144	152	125	113	242	61	62	0	1266
40	東中條 Higashinakajo.	116	23	123	74	147	173	109	55	262	69	16	14	1183
41	笠岡 Kasaoka.	101	20	124	76	73?	156	120	10	167?	64?	26	7	944?
42	玉島 Tamashima.	106	20	101	81	123	133	124	16	250?	71	37	9	1071?
	高梁川 Takahashi-gawa.													
43	倉敷 Kurashiki.	118	19	150	81	133	161	93	25	270	77	47	11	1186
44	岡田 Okada.	121	21	153	82	120	155	102	13	251	80	39	16	1153
45	高梁 Takahashi.	132	24	146	80	136	127	116	78	387	92	40	25	1383
46	新見 Niimi.	137	33	95?	83?	144	159	169	66	269?	92	52	41	1341?
47	西江原 Nishiyebara.	112	22	127	80	125	181	130	38	267	73	36	15	1208
48	東城 Tōjō.	148	41	149	106	149	195	241	81	283	92	56	51	1592
49	油木 Yuki.	143	46	128	113	132	183	130	57	219	83	49	51	1334
50	原古才 Harakosai.	105	20	146	89	119	160	116	28	277	85	43	14	1204
51	味野 Ajino.	73	37	139	90	104	142	134	23	361	63	38	5	1210
52	東野崎 Higashinosaki.	102	18	154	91	128	152	104	17	363	65	45	10	1249
	旭川 Asahi-gawa.													
53	下出石 Shimoizuishi.	128	25	132	88	130	188	108	34	325	78	35	12	1284
54	岡山 Okayama.	94	49	147	84	122	169	127	27	327	77	35	3	1261
55	金川 Kanagawa.	149	21	145	90	96	160	103	40	304	96	66	18	1288
56	下弓削 Shimoyuge.	135	25	166	105	145	180	159	146	375	102	46	26	1612
57	勝山 Katsuyama.	161	58	154	140	195	150	270	134	331	104	75	60	1831
58	湯本 Yumoto.	165	90	183	172	165	133	265	138	363	86	59	68	1887
59	西輕部 Nishikarube.	128	20	163	96	139	170	140	34	358	87	68	9	1414
	吉井川 Yoshii-gawa.													
60	西大寺 Saidaiji.	109	19	146	85	134	184	93	11	317	75	35	11	1221
61	津山 Tsuyama.	127	29	112	116	151	149	185	43	349	87	53	26	1426
62	倉敷 Kurashiki.	138	21	144	117	149	157	174	103	342	93	40	24	1503
63	勝間田 Katsumada.	154	26	210	143	165	152	166	81	387	96	47	33	1660
64	西片上 Nishikatakami.	115	19	169	81	136	192	170	28	336	66	51	13	1375
	千種川 Chikusa-gawa.													
65	大持 Daimochi.	84	68	186	139	159	183	195	30	428	91	69	14	1647
66	佐用 Sayo.	89	65	196	151	152	144	232	88	384	92	46	33	1672
	揖保川 Ibo-gawa.													
67	龍野 Tatsuno.	115	25	205	136	201	183	221	27	408	79	43	16	1659
68	安積 Azumi.	107	75	220	172	142	154	311	103	485	95	56	15	1937
	市川 Ichi-kawa.													
69	西田原 Nishitawara.	73	60	224	179	182	175	287	54	367	81	51	21	1755
70	生野 Ikuno.	82	100	145	187	214	166	331	118	660	140	152	15	2311
	加古川 Kako-gawa.													
71	加古川 Kakogawa.	61	47	178	120	133	107	161	27	218?	74	10	15	1150

第一表 明治卅年降水總量 粍

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 乙 内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. b N. Coast.—Continued.												
	加古川ノ續 Kako-gawa. (*Continued.*)													
72	佐治 Saji.	114	93	184	236	189	169	221	159	374	104	47	58	1948
73	篠山 Sasayama.	115	61	189	233	164	129	280	52	595	94	75	34	2023
74	和田岬 Wadanomisaki.	90	28	244	168	189	143	219	2	582	55	117	22	1859
75	神戸 Kōbe.	78	26	159	178	163	178	254	25	518	71	73	13	1736
	池田川 Ikeda-gawa.													
76	池田 Ikeda.	122	48	111?	222	149?	140	254	22	464	46	77	0	1655
77	宿野 Shikuno.	130	19?	136	173?	98?	54?	196?	72	319?	76?	39	21	1333
78	地黄 Jiō.	90	28	200	187	202	143	187	61	472	51	80	26	1729
	淀川 Yodo-gawa.													
79	本島 Hontorishima.	84	30	154	197	134	131?	250	63?	473	41?	85	8?	1653
80	天保山 Tenpōsan.	82	36	122	187	138	140	213	56	477	53	90	4	1599
81	大阪 Ōsaka.	77	32	125	204	144	162	235	43	436	52	90	20	1621
82	大阪 Ōsaka.	74	31	121	185	132	137	204	38	466	53	89	14	1545
83	大阪 Ōsaka.	76	31	121	189	130	148	221	44	457	48	84	23	1572
84	天王寺 Tennōji.	71?	....	....	109?	124?	149	210	30	405	39	77	5	....
85	茨木 Ibaraki.	86?	32	122	213	146?	137	268?	59	445	48	85	22	1664
86	牧方 Hirakata.	96	33	149	176?	158	151	261	68	394	49	87	1	1624
87	向日 Mukō.	90	36	150	215	199	135	199	51	478	60	81	27	1721
88	淀 Yodo.	101	38	148	206	178	135	192	66	496	56	92	39	1747
89	伏見 Fushimi.	93	39	132	192?	171	146	189?	51	406?	74	110	29	1631?
90	醍醐 Daigo.	83	47	157	225	162	130	181	51	470	51	99	25	1681
91	津之國 Kunatsu.	105	43	98	137?	174	140	62?	84	459	59	90	39	1492
92	水口 Minaguchi.	105	45	145	198	136	112	163	80	464	48	77	39	1612
93	八幡 Hachiman.	130	89	168	194	178	175	153	47	462	63	88	52	1801
94	愛知川 Echigawa.	86	80	103	171	97	116	166	90	372	16	120	43	1460
95	上根 Yamakami.	93	73	51?	166	159	148	152	76	461	12?	81	41	1513
96	濱ノ彦根 Hikone.	115	91	146	194	150	154	224	41	399	65	121	45	1747
97	長濱 Nagahama.	193	59	157	136	203	147	193	65	367	67	134	154	1878
98	木本 Kinomoto.	250	173?	195?	220	259	180	308	75	530	84	201	296?	2771?
99	内ノ河津 Nakakawachi.	145	103?	140?	306	363?	158	322	133	574	131	267	422	3064
100	今津 Imazu.	230	189	137?	192	191	180	140	35	514	88	136	202	2236
101	比叡山 Hiezan.	85	96?	164	224	223	131	288	95	470	72	115	56	2018
102	大津 Otsu.	105	42	181	239	226	134	264	27	418	61	105	34	1838
103	田邊 Tanabe.	83	44	136	199	135	133	232	34	378	58	82	28	1543
104	木津 Kizu.	73	35	116	193	140?	125	273	26	428	47	58	20	1536
105	名張 Nabari.	103	46	138	189	133	110?	266?	149	496	56	65?	7?	1758
106	五六ノ庄 Nabari.	88	44?	116?	193	140?	107?	240	133	513	54	51	21	1699
107	南月瀬 Minaminoshō.	—	—	—	—	—	—	—	—	—	....	68	11	—
108	野 Tsukinose.	—	—	—	—	—	—	—	—	—	55	56?	5?	—
109	上別所 Ueno.	28?	31	138?	216	102	121	129	69	405	49	75	19	1383
110	針ケ山 Harigabetsusho.	69	48?	134?	240	176	146	245	49	413	....	—	—	....
111	松山 Matsuyama.	91?	61	145	259	145	122	192	99	409	....	68	31	....
112	菅野 Kwanno.	107	61	181	263	175	161	214	30	503	69?	100	24?	1891
113	神末 Kamisue.	—	—	—	—	—	—	—	—	—	—	—	17	—
114	末政 Uzumasa.	90	30	148	202	182	135	223	110	383	60	94	33	1691
115	岡部 Kameoka.	99	30	148	195	197	135	174	55	474	73	81	33	1695
116	園山 Sonobe.	107	37	151	157	177	187	145	55	462	88	64	28	1658
117	周都 Shuzan.	110	41	152	131	125	105	200	68	352	82	73	61	1501
118	京中 Kioto.	92	37	147	200	175	140	226	94	447	63	107	37	1764
119	田 Tanaka.	85	32	141	186	165	141	214	127	424	51	103	39	1709
	大和川 Yamato-gawa.													
120	八尾 Yao.	77	36	95	208	114	140	272	10?	374	41?	91	25	1485
121	柏原 Kashiwabara.	69	34?	139	211	....	....	....	....	....	....	....	....	....
122	富田林 Tōndabayashi.	83	43	103	182	96	159	149	42?	388	52?	64?	25	1387
123	王寺 Ōji.	74	45	122	224	111	165	233	39	408	56	78	25	1580
124	郡山 Kōriyama.	—	—	—	—	—	—	—	—	—	55	79	21	—
125	奈良 Nara.	75	41	120	193	123	119	245	12	393	50	94	20	1486
126	高山 Takayama.	—	—	—	—	—	—	—	—	—	48	99	31	—
127	高田 Takata.	—	—	—	—	—	—	—	—	—	67	27?	14?	—
128	御所 Gose.	94	54	116	232	101	140	177	20	464	74	73	24	1570
129	八木 Yagi.	86	42	115	201	102	108	192	40	451	65	64	13	1479
130	田原 Tawara.	81	35	141?	240	155	155	319	12?	454	53	70?	9	1725

第一表 明治卅年降水總量表

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m. m.

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	第四區 乙 內海ノ續 北岸ノ續						**IV. INLAND SEA.—Continued. b. N. Coast.—Continued.**							
	大和川ノ續 Yamato-gawa. (*Continued.*)													
131	三輪 Miwa.	88	42	122	230	127	103	218	51	465	64	62	22	1594
132	丹波市 Tanbaichi.	—	—	—	—	—	—	—	—	—	58	71	26	
133	初瀬 Hatsuse.	100	51	130	252	182	122	222	48	....	....	61	27	....
134	堺 Sakai.	104	38	97?	201	91	154	202	37	....	46?	99?	12	....
135	長承寺 Chōshōji.	79	39	118	173	90	173	237	....	....	58	70	22	....
136	岸和田 Kishiwada.	90	40	128	191	110	154	185	8	433	56	59	19	1475
137	尾崎 Osaki.	....	....	....	....	83	200	268?	....	560	....	....	....	....
138	谷川 Tanigawa.	112	29	164?	175?	91?	190?	203	18	519	63?	95?	12	1673
	第五區 日本海						**V. SEA OF JAPAN.**							
1	三ツ島 Mitsushima.	110	79	157	115	171	154	142	194	455	36	77	32	1724
2	佐奈 Sasuna.	135	77	180	156	185	162	199	173?	257	42	105	66	1939
3	須原 Itsugahara.	119	50	209	172	242	134	277	176	658	107	74	87	2306
4	神崎 Kamisaki.	51	44	218	108	162	56	312	92	496	91	73	43	1749
5	武生水 Mushōzu.	57	53	251	97?	144	69	151	307	204?	57?	71	49	1509
6	伊萬里 Imari.	161	59	260	140	130	28	221	137	440	20	138	0	1735
7	唐津 Karatsu.	91	72	65	79	56	43	78	188	248	29	80	29	1058
8	島子島 Yeboshishima.	42	35	123	44	60	89	239	98	200	39	64	35	1068
9	前原 Mayebara.	86	78	175	95	105	44	221	182	308	27	48	58	1428
10	福岡 Fukuoka.	84	59	176	80	110	55	263	192	309	29	52	56	1465
11	二日市 Futsukaichi.	94	73	182	126	181	52	332	232	262	36	46	47	1664
12	大川 Ōkawa.	84	57	180	66	111	46	238	245	222	32	57	61	1399
13	東郷 Tōgōa.	90	69	173	78	118	84	296	263	210	28	76	90	1577
	遠賀川 Oshikagaw.													
14	蘆屋 Ashiya.	81	51	157	79	119	81	405	288	202	44	64	58	1630
15	直方 Naokata.	67	69	172	42?	127	62	362	247	248	38	52	47	1535
16	直方 Naokata.	69	....	....	....	....	....	....	....	....	....	....	....	....
17	嘉穂 Iizuka.	77	83	163	91	150	50	312	320	248	41	49	48	1632
18	飯塚 Doi.	61	63	145	92	87	52	363	272	297?	41	65	52	1591
19	春日 Kaharu.	65	59	193	85	117	78	323	78	158	....	43	40	....
20	添田 Soeda.	127	101	213	72	150	78	398	140	328	44	55	75	1781
21	小倉 Kokura.	74	64	165	95	128	51	327	267	206	50	66	51	1544
22	洲濱 Shirasu.	136	97	229	175	255	118	496	266	374	64	97	107	2414
23	連島 Mutsurenshima.	109	97	187	135	149	88	412	182	374	69	77	81	1959
24	間關 Akamagaseki.	85	81	174	107	143	72	319	187	274	55	47	57	1601
25	津島 Tsunoshima.	134	46	152	100	200	177	261	160	286	37	53	75	1683
26	河原 Kawara.	144	67	163	108	190	190	238	255	308	45	77	....	....
27	見島 Mishima.	96	56	156	52	128	140	91	366	217	28	57	46	1433
	松本川 Matsumoto-gawa.													
28	萩 Hagi.	94	56	95	82	139	161	201	150	191	19	49	39	1277
29	佐野 Susa.	161	71	178	112	190	142	190	197	329	33	75	131	1809
30	須津和野 Tsuwano.	146	122	141	143	108	162	121	148	70?	32	74	117	1385
31	益田 Masudahongō.	120	85	147	102	142	105	157	256	284	35	62	137	1633
32	濱田 Hamada.	125	88	138	92	139	116	164	312	280	33	67	127	1682
	鄕川 Gō-kawa.													
33	川本 Kawamoto.	133	204	140	62?	108	91	128	119	229	54	73?	64?	1406
34	濱原 Hamahara.	131	122	134	127	141	122	219	144	263	66	109	209	1787
35	三次 Miyoshi.	67	36	98	82	133	125	196	102	246	57	89	47	1278
36	三阪 Mirasaka.	110	37	125	76	91	177	94	107	243	67	53	41	1222
37	西野 Nishino.	88	24	112	90	130	141	149	48	263	45	52	31	1174
38	生田 Ikuta.	111	102	154	....	....	....	....	....	....	....	....	....	....
39	吉田 Yoshida.	102	65	114	72	153	208	178	92	292	67	121	21	1486
40	壬生 Mibu.	156	68	113	82	109	125	213	167	352	53	61	21	1520
41	大朝 Ōasa.	122	149	113	102	158	192	159	204	308	36	60	....	....
42	上野 Kamifuno.	120	183	119	11	131	91	65	65	295	28	88	101	1299
43	新布市 Shinichi.	24	19	110	171	138	171	237	144	299	65	64	89	1532
44	庄原 Shōhara.	50	14	124	94	119	181	227	59	287	54	40	24	1273
45	西城 Saijō.	130	85	151	102	148	184	128	84	264	94	84	54	1507
46	小島原 Koshimahara.	151	99	126	156	168	143	285	119	306	80	97	92	1821
47	比和 Hiwa.	—	—	—	—	—	—	—	88	355	74	92	30	—

第一表 明治卅年降水總量 表一第

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續 V. SEA OF JAPAN.—Continued.													
48	大森 Ōmori.	....	....	....	....	....	136	179	177	273?	27?	64?	....	....
49	大田 Ōta.	—	—	—	—	—	—	—	68?	195	36	104	148	—
50	鹽治 Enya.	151	70	147	158	170	125	192	285	331	29	131	161	1951
51	今市 Imaichi.	112?	65	112	97	145	....	115	123?	260?	31?	77?	106	....
	斐伊川 Hino-kawa.													
52	大東 Daitō.	168?	....	....	77?	69?	....	138?	132	288	42	105	137	....
53	掛合 Kakeya.	124?	....	....	....	....	....	136?	....	186?	33?	101?	134	....
54	三成 Minari.	—	—	—	—	—	—	—	—	—	—	75	110	—
55	三成 Minari.	151	59	144	175	153	121	129	285	437	73	124	167	2017
56	福富 Fukudomi.	126	84	125	106	207	106	133	131	376	46	118	131	1690
57	廣瀨 Hirose.	186	122	154	199	133	63	245	71	160?	54	152	209	1748
58	八田 Hatta.	98?	....	101	76	110	94	159	151	358	61	106	....	....
59	米子 Yonago.	166	88	161	133	142	95	117	162	456	94	141	244	2000
60	境 Sakai.	163	87	172	162	167	111	126	162	439	103	156	203	2053
	日野川 Hino-gawa.													
61	二部 Nibu.	126	57	138	84	146	159	225	140	352	87	111	79	1706
62	黒阪 Kurozaka.	86	125	151	131	121	103	228	68?	294	61	116	81	1567
63	多里 Tari.	109	81	113	142	136	104	197	136	323	55	41?	106	1545
64	佐摩 Sama.	136	80	144	145	175	160	208	187	463	58	156	211	2124
65	御來屋 Mikuriya.	180	31	146	116	136	115	160	211	419	66	131	190	1902
66	八橋 Yabashi.	....	....	....	....	....	....	....	....	....	....	150	....	....
67	倉吉 Kurayoshi.	176	52	127	111	155	79	206	104	465	97	141	162	1875
68	青谷 Aoya.	177	108	127	81	92	58	274	140	433	52?	72	241	1856
69	吉岡 Yoshioka.	144	70	69	79	98	75	117	207	383	37	119	227	1626
	千代川 Chiyo-gawa.													
70	智頭 Chizu.	205	91	208	204	184	163	302	156	440	119	121	154	2345
71	鳥取 Tottori.	197	102	123	70	122	88	294	184	398	68	135	250	2032
72	栃本 Tochimoto.	255	136	178	154	258	126	359	124	416	183	181	360	2731
73	郡家 Kōge.	174	77	106	103	81	79	195	72	332	66	103	193	1581
74	若櫻 Wakasa.	190	127	178	167	176	127	380	128	394	109	168	244	2388
75	岩井 Iwai.	275	156	181	124	217	93	309	179	394	128	185	494	2735
76	湯村 Yumura.	282	174	144	146	212	112	315	191	544	129	226	817	3293
	圓山川 Inzan-gawa.													
77	豐岡 Toyo-oka.	161	68	169	112	123	107	189	145	468	111	180	337?	2170
78	出石 Isushi.	135	157	177	131	132	91	205	179	478	97	128	149	2059
79	和田山 Wadayama.	84	96	135	97	137	108	227	143	446	98	71	166	1808
80	久美濱 Kumihama.	237	184	178	154	155	100	184	222	580	125	170	527	2816
81	網野 Amino.	185	177	174	152	170	72	175	208	467	135	140	425	2481
92	峰山 Mineyama.	246	179	167	153	180	82	175	182	467	105	173	449	2559
83	宮津 Miyatsu.	190	95	169	177	170	104	211	209	457	126	156	297	2361
	由良川 Yura-gawa.													
84	由良 Yura.	160	92	157	188	140	104	199	184	529	101	127	233?	2216
85	福知山 Fukuchiyama.	128?	46	166?	211	175	166	162?	148	488	105	82	49	1927
86	綾部 Ayabe.	140	55	177	193?	178	186	188	121	516	118	93	75	2041?
87	鷹栖 Takasu.	156	62?	173	211	180	160	195	103	459	115	98	55	1968?
88	舞鶴 Maitsuru.	158	76	162	245	177	119	225	109	548	113	125	136	2193
89	高濱 Takahama.	—	—	—	—	—	—	168	87	667	142	134	....	....
90	久阪 Hisasaka.	....	....	....	....	198	164	161	123	539	169?	171	....	....
91	小濱 Obama.	—	—	—	—	—	—	147	88	484	98	128	....	....
92	熊川 Kumakawa.	....	....	....	....	278	221	169	125	537	110	173	....	....
93	三方 Mikata.	—	—	—	—	—	—	131	95	485	85	176	....	....
94	立石岬 Tateishinohama.	268	179	232	215	334	143	353	150	593	102	217	431	3217
95	敦賀 Tsuruga.	—	—	—	—	—	—	—	—	—	100	185	....	....
	九頭龍川 Kuzuriu-gawa.													
96	三國 Mikuni.	—	—	—	—	—	—	351	35?	640	16?	6?	....	....
97	福井 Fukui.	278	176	154	192	186	82	407	175	488	112	195	490	2928

第一表 明治卅年降水總量 粍

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續	**V. SEA OF JAPAN.—Continued.**												
	九頭龍川ノ續 Kuzuriu-gawa. (*Continued*)													
98	松岡 Matsuoka.	—	—	—	—	—	—	326	144?	422?	88?	193?	....	....
99	大野 Ono.	....	....	....	....	190	113	545	185	583	122	184	....	....
100	大野 Ono.	—	—	—	—	—	—	532	....	....	....	....	....	....
101	貝皿 Kaizara.	—	—	—	—	—	—	—	261	605	132	325	....	....
102	大谷 Ōya.	—	—	—	—	—	—	—	180	718	126	227	....	....
103	東鄉 Tōgō.	—	—	—	—	—	—	356	190	512	113	198	....	....
104	稻荷前 Inarimai.	—	—	—	—	—	—	....	288?	708	114	239	....	....
105	鯖江 Sabai.	—	—	—	—	—	—	388	146	538?	82?	155	....	....
106	武生 Takefu.	—	—	—	—	—	—	340	257	562?	87?	195	....	....
107	今莊 Imajō.	....	....	....	....	....	....	386	283?	579	110	232	....	....
108	西田中 Nishitanaka.	—	—	—	—	—	—	328	176	496?	133	198	....	....
109	大聖寺 Daishōji.	236	175	154	214	190	76	305	173	518	141	136	349	2666
110	小松 Komatsu.	222	122	140	181	164	75	267	111	439	112	124	345	2302
111	白峰 Shiramine.	....	....	....	....	196	130	572	213	597	171	....	....	....
112	松任 Matsutō.	189	119	153	158	157	69	281	141	466	155	107	341	2335
113	金澤 Kanazawa.	220	190	165	219	176	86	289	144	493	153	164	435	2734
114	津幡 Tsubata.	151	100	143	153	136	50	213	105	259	88	127	308	1832
115	羽咋 Hagui.	182	109	124	162	104	46	270	128	467	99	117	268	2075
116	輪島 Wajima.	212	139	128	198	116	74	192	91	575	105	148	253	2231
117	祿剛崎 Rokkōsaki.	186	151	138	163	102	44	258	198	441	97	165	177	2122
118	野々江 Nonoe.	288	154	117	165	78	46	241	110	262	123	165	363	2112
119	飯田 Iida.	218	79	107	149	83	53	253	108	....	114	174	307	....
120	七尾 Nanao.	186	93	77	177	122	22?	252	86	405	74	89	237	1819
121	氷見 Himi.	—	122	100	235	113	50	....	....	....	....	114	....	....
	庄川 Shō-kawa.													
122	伏木 Fushiki.	207	134	121	225	118	90	243	132	509	99	158	334	2371
123	高岡 Takaoka.	166?	....	....	....	....	63	294	150	460	89	154	152	....
124	金屋岩黑 Kanayaiwakuro.	....	....	....	....	170	77	352	198	465	91	....	....	....
125	井波 Iname.	232	127	152	230	169	71	251	163	491	123	232	394	2635
126	今井動 Imaisuruno.	—	—	—	—	149	82?	267	150	479	110	129	319	....
	神通川 Jintsū-gawa.													
127	富山 Toyama.	239	139	138	244	100	49	307	141	477	107	90	179	2211
128	古川 Furukawa.	—	—	—	—	—	+	—	—	—	25	110	95	—
129	高山 Takayama.	80	35	127	210	133	62	329	78	651	87	99	53	1943
130	三室荒屋 Mimuroaraya..	....	....	....	....	127	60	340	295	791	202	....	....	....
131	船津 Funatsu.	....	....	....	....	109	50	377	133	584	138	....	....	....
132	船津 Funatsu.	—	—	—	—	—	—	393	140	602	146	167	73?	—
133	魚津 Uotsu.	167	82?	141	199	135	89	372	162	438	116	108	228	2238
134	糸魚川 Itoigawa.	219	148	157	231	82	50	292	279	493	182	242	581	2956
135	南小谷 Minamiotani.	—	—	—	—	—	—	393	113	....	....	150	....	....
	關川 Seki-kawa.													
136	高田 Takata.	....	....	....	177	86	50	283	309	369	216	313	....	....
137	關山 Sekiyama.	....	....	....	....	80	69	339	361	428	127	....	....	....
138	安塚 Yasuzuka.	....	....	....	144	73	68	300	294	491	215	204	....	....
	信濃川 Shinano-agwa.													
139	新潟 Niigata.	135	78	102	200	77	45	250	315	384	188	113	257	2144
140	新潟 Niigata.	148	118	113	194	92	54	235	338	377	153	116	318	2258
141	新潟 Niigata.	194	129	106	162	83	54	223	344	338	157	118	323	2231
142	三條 Sanjō.	223	121	124	186	80	66	303	190?	327	233	147	370	2370
143	與板 Yoita.	93	45	38	38	16	10	156	520	445	297	174	....	....
144	長岡 Nagaoka.	....	....	....	209	87	84	265	369	398	294	215	103?	....
145	小谷 Ojiya.	....	....	....	....	....	66	174	459	272	202	175	....	....
146	十日町 Tōkamachi.	....	....	....	123	96	83	300	389	466	185	142	153?	....
147	豐鄉 Toyosato.	....	....	....	....	75	42?	285?	338	336	99	155	....	....
148	飯山 Iiyama.	....	....	....	131	59	52	256	185?	293	81	123	....	....
149	中野 Nakano.	44	25?	74	100	60	43	321	77	304	62	50	47?	1207
150	豐津 Toyotsu.	80	86	65	146	55	41	288	161	364	81	81	88	1536
151	須坂 Susaka.	43	10	27	145	56	45	247	50	297	67	67	24	1080
152	仁禮 Nirei.	—	41	65	163?	70?	63	252	69	358?	61	77	39	—
153	篠井 Shinonoi.	50	10	34	151	57	66	283	55	329	78	81	19	1213

第一表 明治卅年降水總量 表一第

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

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	第五區 日本海ノ續 V. SEA OF JAPAN.—Continued.													
	信濃川ノ續 Shinano-gawa. (Continued.)													
154	屋代 Yashiro.	51	19	26	169	60	60	266	64	404	44	33?	14	1210
155	上田 Ueda.	73	2	33	98	57	48?	147	63	317	99	59	0	996
156	岩村田 Iwamurada.	36	7	37	84	66	83	136	120	....	....	....	....	....
157	臼田 Usuda.	47	8	37	93	71	115	118	70	286	55	96	7	1004
158	西内 Nishiuchi.	90	21	52	157	85	78?	223	131	382	77	63	11	1372
159	巻 Maki.	216	101	131	178	96	42	111	422	334	184	135	264	2215
160	村松 Muramatsu.	....	....	....	....	100	91	357	427	351	272	....	....	....
161	櫟尾地町 Tochiomachi.	....	....	....	....	87	90	416	545	389	308	....	....	....
162	孟地 Mochi.	....	....	....	....	106	123	381	619	619	....	....	....	....
163	六日町 Muikamachi.	136	120	144	169	90	81	371	461	404	173	257	565	2973
164	湯澤 Yusawa.	....	....	....	....	132	154	307	401	368	143	....	....	....
165	長野 Nagano.	56	30	41	166	60	50	324	87	305	59	65	31	1274
166	南小川 Minamiogawa.	—	—	—	—	—	—	—	—	—	—	89	....	....
167	牧田中 Makitanaka.	60	16?	35	173	76	47?	443	113	415	92	96	20	1586
168	大町 Omachi.	66?	26	59	167	99	107	359	123	454	114	75	27	1677
169	成相新田 Nariaishinden.	94	16?	52	194	67	46	209	57	492	87	84	4	1401
170	松本 Matsumoto.	86?	16?	....	....	75	39?	105?	39	....	29?	18	....	....
171	奈良川 Naragawa.	77	101	165	259	141	88	408	46	685	88	30?	5	2092
172	島々 Shimashima.	....	....	....	....	86	55	387	129	353	83	....	....	....
173	姫崎 Himesaki.	143	131	107	230	86	55	297	346	442	189	178	150	2355
	阿賀野川 Akano-gawa.													
174	新發田 Shibata.	151	114	59	106	69	76	214	327	466	262	144	457	2447
175	津川 Tsugawa.	....	....	....	153	73	98	358	243	417	284	194	....	....
176	喜多方 Kitakata.	124	28	86	124	50	56	260	248	333	133	94	....	....
177	阪下 Bange.	97	61	81	116	49	59	280	264	270	109	128	185	1700
178	高田 Takata.	73	47	81	122	65	93	337	305	287	112	110	107	1739
179	若松 Wakamatsu.	57	21	85	121	58	75	291	259	253	112	119	86	1536
180	福良 Fukura.	....	....	....	....	58	92	225	271	389	92	....	....	....
181	猪苗代 Inawashiro.	12?	10	66	89	58	92	274	282	294	126	114	0?	1419
182	只見 Tadami.	....	....	....	....	90	112	480	521	406	225	....	....	....
183	田島 Tajima.	45	7	41	135	73	114	302	266	297	91	122	11	1503
184	小國 Okuni.	....	....	....	....	114	77	328	445	....	....	....	....	....
185	村上 Murakami.	82	55	92	215	122	58	211	367	446	206	221	236?	2313
186	加茂 Kamo.	....	....	....	204	91	133	175	391	319	206	208	267	....
	最上川 Mogami-gawa.													
187	酒田 Sakato.	66	81	67	143	87	146	252	305	199	119	119	144	1928
188	酒田 Sakata.	96	66	63	155	85	76	208	299	216	141	141	191	1955
189	新庄 Shinjō.	142	137	83	188	64	94	233	309	240	144	144	254	2246
190	楯岡 Tateoka.	54	118	65	112	62	90	140	208	97	162	162	190	1578
191	天童 Tendo.	77	47	15?	47	52	51	130	104	100	90	90	99?	1101
192	寒河江 Sagae.	49	54	70	105	55	59	150	133	127	108	108	110	1327
193	山形 Yamagata.	63	44	81	91	75	55	163	169	110	88	88	100	1346
194	上ノ山 Kaminoyama.	62	53	73	125	72	98	181	159	107	114	114	127	1492
195	宮 Miya.	54	67	55	164	70	88	216	174	208	139	139	208	1819
196	赤湯 Akayu.	—	—	—	—	54	51	197	153	136	75?	75?	132	—
197	高畑 Takahata.	66	36	35	81	—	—	—	—	—	—	—	—	—
198	米澤 Yonezawa.	83	51	46	95	75	67	218	194	274	102	122	75?	1405
199	大鳥 Otori.	337	332	257	339	145	143	287	511	551	482	417	760	4561
200	鶴岡 Tsuruoka.	194	172	162	214	128	140	183	377	432	276	189	398	2865
201	藤島 Fujishima.	165	132	98	181	114	115	218	337	384	269	189	382	2581
	子吉川 Koyoshi-gawa.													
202	本荘 Honjō.	123	103	65	120	153	91	225	372	277	166	144	242	2081
203	矢島 Yajima.	....	....	....	190	112	97	110	200	329	274	303	151	....
204	道川 Michikawa.	153	95	51	79	77	60	175	98	178	212	170	240	1591
205	象潟 Kisakata.	105	26	48	162	88	65	101	139	280	179	152	218	1563
	雄物川 Omono-gawa.													
206	土崎 Tsuchisaki.	100	....	....	129?	134	56	230	322	241	155	108	136	....
207	秋田 Akita.	126	85	86	171	129	74	229	342	247	174	153	147	1964
208	新波 Araha.	153	154	122	164	161	115	253	327	333	225	144	324	2474

第一表 明治卅年降水總量 表

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續													
	雄物川ノ續 Omono-gawa. (*Continued.*)													
209	大曲 Ōmagari.	88	92	82	121	163	54	120	178	87	211	65	48	1310
210	橫手 Yokote.	....	....	....	....	....	....	....	427?	381	107?	126?	171?	....
211	沼館 Numadate.	....	....	....	....	119	103	127	351	217	231	139	....	....
212	西馬音內 Nishimaonai.	11	6?	....	87	100	43	....	667	857	188	....	19?	....
213	稻庭 Inaniwa.	173	115	63	87	123	134	137	523	362	171	158	300	2347
214	川向 Kawamukai.	189	151	138	77	57	120	106	170	150	152	130	239	1681
215	角館 Kakunotate.	154	123	112	181	230	120	248	370	194	225	161	182	2302
216	田澤 Tazawa.	104	103	83	165	222	96	244	364	228	191	151	115	2067
217	目長崎 Menagaski.	130	130	110	199	173	117	343	479	234	237	166	212	2530
218	笠岡 Kasaoka.	74	93	93	142	124	71	272	317	172	135	125	124	1743
219	五城目 Gojōnome.	157	73	88	142	168	102	197	323	210	179	169	144	1952
	米代川 Yoneshiro-gawa.													
220	能代 Nashiro.	....	35	39	97	184	37	187	216	181	134	87	124	....
221	鷹巢 Takanosu.	125	95	89	133	171	62	313	400	200	195	129	192	2106
222	大館 Ōdate.	....	....	....	43	100	38	152	150	161	164	....	....	....
223	扇田 Ōgita.	109	116	113	96	159	35	412	286	211	135	163	139	1973
224	毛馬內 Kemanai.	....	....	....	....	....	13	195	208	255	181	110	....	....
225	花輪 Kanawa.	91	69	80	128	137	55	233	257	214	188	147	198	1797
	岩木川 Yuwaki-gawa.													
226	五所河原 Goshogawara.	163?	67	50?	51?	109?	66?	65?	178?	142?	198	122?	226?	1438
227	弘前 Hirosaki.	105?	86?	128	116	130	135	103	141?	130	118?	103?	174?	1468
228	國吉 Kuniyoshi.	180	237	45	81	109	41	81	87	125	186	131	181	1486
229	黑石 Kuroishi.	111	52	50	45?	102?	49	33?	102?	172?	134	103	139?	1093
230	江良町 Eramachi.	133	123	49	38	67	85	80	181	66	90	56	110	1077
231	鰕島 Kamomeshima.	124	136	95	114	108	146	71	141	76	118	72	207	1409
232	乙部 Otobe.	....	....	....	104	89	116	125	133	140	74	39	50	....
233	釣掛 Tsurikake.	131	143	97	99	66	96	157	230	77	137	108	135	1477
234	稻穗崎 Inahosaki.	42	86	64	71	69	125	163	214	102	148	105	136	1326
235	太櫓 Futoro.	43	45	45	38	58	81	41	43	25	108	94	75	697
236	永豐 Nagatoyo.	55	74	103	56	108	18	46	30	18	43	12	67	631
237	黑松內 Kuromatsunai.	—	—	—	—	79	111	132	104	160	299	178	290	—
238	辨慶崎 Benkeisaki.	27	23	46	86	98	100	79	121	76	149	77	63	946
239	壽都 Suttsu.	113	54	59	76	96	68	73	62	96	157	79	95	1026
240	岩內 Iwanai.	30	19	33	20	4	3	2	2	3	3	2	151	270?
241	神惠內 Kamuinai.	....	....	....	20	27	14	25	26	27	17	10	....	....
242	神威岬 Kamoimisaki.	90	47	41	34	38	24	33	33	82	98	35	76	632
243	仁木 Niki.	....	....	....	....	30	21	10	8	40	48	33	....	....
244	日和山 Hiyorimiyama	165	71	33	112	108	67	53	52	79	14	4	146	904
	石狩川 Ishikari-gawa.													
245	石狩 Ishikari.	29	30	22	101	128	41	54	66	94	117	41	313	1037
246	札幌 Sapporo.	41	62	28	96	83	34	35	38	89	91	51	76	725
247	忠別 Chūbetsu.	112	34	43	41	80	96	50	67	108	125	53	96	906
248	千歲 Chitose.	25?	27?	16?	32	100	48	62	76	120	121	47	39?	712
249	增毛 Mashike.	111	108	129	99	80	120	93	89	121	356	86	333	1726
250	留崩 Rurumotsupe.	70	24	....	3	13	....	....	....	....	....	....	....	....
251	鴛泊 Oshidomari.	314	329	256	74	91	57	65	59	234	94	21	22	1615
	仁川 Jenchuan.	74	19	51	99	61	67	452	333	19	56	109	24	1364
	釜山 Fusan.	110	15	100	52	107	123	264	131	131	32	30	45	1143
	釜山津 Fusan.	57	16	104	80	109	132	292	132	132	34	31	49	1166
	元山津 Yuensan.	82	22	67	37	88	75	354	107	4	30	72	—	940
	浦潮 Vladivostok.	7	16	7	29	30	46	52	67	43	59	9	0	365
	第六區 津輕海峽													
1	青森 Aomori.	142	83	77	92	112	71	129	157	152	149	108	265	1537
2	脇ノ澤 Wakinozawa.	134	109	55	129	72	96	68	153	165	169	68	35	1253
3	田名部 Tanabe.	152	78	63	157	126	75	54	157	153	193	119	52	1379
4	尻矢崎 Shiriyazaki.	168	88	64	180	123	65	83	119	182	243	103	54	1473
5	辨天島* Bentenshima.*	49	52	59	137	96	80	58	250	70	131	74	29	1087
6	福島 Fukushima.	32	51	61	83	62	82	47	76	107	138	89	53	880

福山港 * Harbour of Fukuyama.

第一表 明治卅年降水總量 粍

TABLE I. AMOUNT OF PRECIPITATION IN 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第六區 津輕海峽ノ續 VI. TSUGARU STRAIT.—Continued.													
7	白神崎 Shirakamisaki.	56	49	32	106	65	64	81	315	110	107	84	47	1115
8	葛登支岬 Kattojimisaki.	70	66	36	173	108	78	59	127	115	177	164	205	1379
9	七飯 Nanaii.	98	96	76	103	109	151	62	135	71	151	97	56	1206
10	函館 Hakodate.	70	73	43	104	95	87	75	131	115	155	101	71	1119
11	汐首岬 Shiokubisaki.	106	53	41	295	148	106	122	137	197	360	141	62	1769
12	恵山岬 Yesanmisaki.	69	27	85	175	148	119	70	198	189	270	172	42	1567
13	臼尻 Usushiri.	131	104	118	103	141	65	75	146	115	190	171	38	1396
14	鹿部 Shikabe.	89	5?	19?	101	105	56	54	99	83	112	150	20	894
15	森 Mori.	45	25?	....	36	73	54	44	46	88	89	70	....	....
16	大黒島* Daikokushima.*	48	18	12	34	76	87	85	101	54	88	54	29	686
17	白老 Shiraoi.	154	51	88	41	72	....	....	....	....	....	....	....	....
18	苫小牧 Tomakomaki.	70	102	45	145	119	127	137	49?	93	164	43	67?	1161
19	下々方 Shimogehō.	49	62	38	157	163	125	82	139	160	148	49	23	1195
20	浦河 Urakawa.	71	109	110	187	163	190	114	142	104	170	72	29	1463
21	襟裳岬 Yerimomisaki.	29	13	38	83	82	198	69	98	97	152	49	18	927
	第七區 阿哥斯克海 VII. OKHOTSK SEA.													
1	宗谷岬 Sōyamisaki.	40	18	34	34	40	28	31	28	133	95	21	66	568
2	網走 Abashiri.	44	25	46	36	66	52	48	55	141	51	28	22	615
3	斜里 Shari.	54	30	61	27	15	27	67	44	154	114	32	36	662
	第八區 州南諸島 VIII. SOUTHERN ISLANDS.													
1	恒春 Kōshun.	7	1	47	9	30	1536	365	414	206	150	58	14	2836
2	臺南 Tainan.	10	11	53	51	90	485	199	889	54	42	28	2	1915
3	澎湖島 Hōkotō.	6	14	35	75	48	112	205	273	0	26	15	0	810
4	臺中 Taichu.	25	111	83	135	132	347	156	418	98	23	31	6	1566
5	臺北 Taihoku.	44	253	100	240	176	139	157	439	217	143	105	68	2082
6	石垣島 Ishigakijima.	196	150	52	122	54	532	181	163	274	286	387	163	2559
7	西里 Nishisato.	207	125	110	261	53	426	135	204	261	217	159	130	2290
8	具志川 Gushicha.	89	153	82	75	62	107	61	....	91	42	62	84	....
9	嘉武屋 Chan.	194	234	32	190	157	295	327	135	313	128	72	126	2203
10	富里 Fuzato.	179	211	192	244	215	383	226	159	466	131	151	166	2723
11	那覇 Naha.	206	177	124	177	190	342	269	205	321	107	91	115	2324
12	先島原崎 Sakibarusaki.	209	175	104	176	159	396	256	188	278	88	84	89	2202
13	首里 Shuri.	190	66	10?	10?	122	276	129	196	346	129	123	142	1740
14	嘉名 China.	199	239	196	207	270	328	307	231	406	264	175	320	3142
15	平屋敷 Hishicha.	188	169	135	92	164	335	246	158	272	125	109	104	2095
16	西原 Nishibara.	79	204	87	57	232	320	260	78	218	124	104	120	1881
17	伊江島 Iijima.	—	—	—	—	—	406	232	296	300	205	181	129	—
18	津堅島 Tsukinjima.	—	189	137	159	198	364	414	44	384	214	200	175	—
19	東江 Agarie	234	193	180	208	210	294	152	215	375	176	224	149	2612
20	曾津高崎 Sotsutakasaki.	—	—	180	130	118	209	79	47	185	133	144	72	—
21	大島 Ōshima.	167	339	308	280	205	462	117	85	484	229	405	181	3262
22	屋久島 Yakushima.	138	157	201	108	128	77	97	100	283	133	149	124	1696
23	西之表 Nishino-omote.	—	—	—	—	—	—	—	—	—	216	194	43	—

† 室蘭灣 Gulf of Muroran.

第二表 明治卅年最多降水量日表

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第一區 西海	I. WESTERN SEA.												
1	大瀬崎 Osesaki.	14	21	58	18	13	14	85	69	92	20	21	6	92
2	福江 Fukue.	36	19	99?	55	166	37	49	32?	144	22	21	22	166
3	古志岐島 Koshikishima.	7	8	65	19	38	12	38	43	44	21	20	18	65
4	平戸 Hirato.	30	17	53	36	113	23	112	34	95	38	37	37	113
5	佐世保 Saseho.	16	19	60	45	74	14	65	74	129	32	42	7	129
6	瀬戸 Seto.	33	19	52	30?	139	24	111	100	125	35	41	70	139
7	長崎 Nagasaki.	19	28	69	46	84	27	50	63	211	40	41	15	211
8	伊王島 Iwōshima.	19	26	93	42	39	30	84	68	198	44	29	24	198
9	蔭ノ尾島 Kagenōshima.	15	41	79	43	34	27	71	61	210	37	36	25	210
10	口ノ津 Kuchinotsu.	15	45	75	71	66	35	63	58	97	38	54	6	97
11	島原 Shimabara.	18	24	70	46	76	24	56	24?	120	35	21	6?	120
12	諫早 Isohaya	22	16	55	44	117	33	70	55	125	27	16	40	125
13	大村 Ōmura.	16	17	49	31	78	30	62	118	84	30	20	36	118
14	高津原 Takatsubara.	9	28	51	20	89	23	96	89	63	14	9	16	96
15	武雄 Takeo.	23	2	41	37	113	23	90	100	90	10	8	29	113
16	小城 Ogi.	22	18	59	40	140	14	96	63	80	20	12	5	140
	筑後川 Chikugo-gawa.													
17	榎津 Enokitsu.	14	18	45	35	76	24	134	36	72	14	12	31	134
18	久留米 Kurume.	18	28	41	31	95	21	178	57	53	14	14	29	178
19	久留米 Kurume.	15	18	39	29	89	19	167	54	55	14	11	27	167
20	轟木 Todoroki.	17	18	49	28	213	28	239	99	161	13	20	5	239
21	善導寺 Jendoji.	13	23	37	19	77	25	130	52	66	13	16	21	130
22	甘木 Amaki.	16	16	34	19	87	25	163	65	66	13	15	11	163
23	吉井 Yoshii.	18	21	38	25	54	29	105	46	77	16	10	20	105
24	宮原 Miyabara.	80	16	45	23	45	55	74	69	51	35	21	9	80
25	福島 Fukushima.	21	25	41	26	56	27	84	45	63	16	13	24	84
26	佐賀 Saga.	13	24	52	44	108	16	114	46	107	10	16	5	114
27	古湯 Furuyu.	22	14	74	52	150	44	137	87	93	25	17	46	150
28	神崎 Kanzaki.	17	16	52	37	51	18	124	74	77	17	12	49	124
29	森 Mori.	13	14	33	32	27	43	76	26	33	91	11	7	91
	矢部川 Yabe-gawa.													
30	柳河 Yanagawa.	14	26	38	29	63	18	146	53	92	18	14	30	146
31	黒木 Kuroki.	15	25	45	25	83	29	98	48	47	21	23	—	98
32	三池 Miike.	22	24	41	22	64	13	61	38	69	24	21	21	69
	菊地川 Kikuchi-gawa.													
33	高瀬 Takase.	20	17	44	19	52	34	69	41	54	35	22	34	69
34	山鹿 Yamaga.	23	18	42	28	41	42	80	50	67	46	25	25	80
35	隈府 Waifu.	20	13	53	20	40	59	84	27	53	31	21	6	84
	白川 Shira-kawa.													
36	春日 Kasuga.	28	24	46	24	37	37	62	38	43	39?	22	16	62
37	熊本 Kumamoto.	14	23	57	31	42	39	115	37	76	31	21	4	115
38	大津 Ōtsu.	—	—	—	—	—	—	—	—	—	—	23	20	—
39	吉田 Yoshida.	22	19	60	28	56	37	75	47	55	27	18	7	75
40	宮地 Miyaji.	16	12	58	29	42	33	62	44	70	32	21	7	70
41	濱町 Hamamachi.	17	26	78	36	33	43	86	113?	90	42	30	10	113?
42	御船 Mifune.	16	17	47	24	28	51	83	40	54	22	—	10	83
43	木山 Kiyama.	—	—	—	—	—	—	—	—	—	—	18	4	—
44	原町 Haramachi.	—	—	—	—	—	—	—	—	—	—	37	11	—
45	宇土 Uto.	17	17	40	27	26	41	91	36	48	23	30	14	91
46	松橋 Matsuhashi.	16	15	53	27	23	37	97	51	63	21	33	10	97
47	山口 Machiyamaguchi	17	20	54	25	48	27	84	46	135	37	25	18	135
48	島戸 Toshima.	—	—	—	—	—	—	108	71	80	28	16	7	—
49	佐敷 Sashiki.	18	14	50	36	32	76	56	50	78	48	30	6	78
	球摩川 Kuma-gawa.													
50	八代 Yatsushiro.	26	45	45	35	18	36	73	35	63	23	32	11	73
51	人吉 Hitoyoshi.	25	14	35	37	47	18	94	41	93	49	11	6	94
52	多良木 Taraki.	—	—	—	—	—	—	—	—	—	38	13	4	—
	川内川 Sendai-gawa.													
53	東手 Higashite.	22	31	54	33	40	42	54	90	150	29	31	7	150
54	里 Sato.	21	13	50	49	40	74	202	83	171	14	20	—	202

第二表　明治卅年最多降水日量

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec	年 Year
	第一區　西海ノ續							**I. WESTERN SEA.—Continued.**						
	川内川ノ續 Sendai-gawa. (*Continued*)													
55	加久藤 Kakutō.	26	19	61	34	48	67	104	92	74?	....	22	7	....
56	郡 Kōri.	23	48	104	—	—	—	—	—	—	—	—	—	—
57	武田 Takeda.	—	—	—	47	48	57	82	123	168	58	69	16	—
58	長崎鼻 Nagasakihana.	—	—	—	—	—	36	129	57	192	57	33	13	—
59	釣掛崎 Tsurikakesaki.	32	32	31	60	62	65	47	128	85	14	41	5	128
	第二區　南海							**II. SOUTHERN SEA.**						
1	久保田 Kubota.	21	16	74	53	60	40	63	63	107	31	46	7	107
2	鹿兒島 Kagoshima.	20	23	41	33	51	46	41	83	90	62	40	4	90
3	中名 Nakana.	20	32	70	38	54	40	113	75	73	54	86	3	113
4	佐多岬 Satanomisaki.	20	20	28	33	30	51	81	29	75	56	88	5	88
5	西方 Nishikata.	20	16	74	37	57	59	74	20	59	63	14	1	74
6	鞍崎 Kurasaki.	30	28	21	22	59	41	19	5	99	45	96	8	99
7	飫肥 Obu.	16	12	68	44?	85	85	41	66	93	33	19	10	93
	大淀川 Ōyodo-gawa.													
8	宮崎 Miyazaki.	45	18	51	46	64	43	34	51	119	36	19	5	119
9	高岡 Takaoka.	26	18	50	45	44	65	44	32	102	28	19	6	102
10	都城 Miyakonojō.	25	17	52	32	44	56	59	77	178	46	37	6	178
11	北俣 Kitamata.	12	16	52	41	48	72	55	83	118	24	15	5	118
12	須木 Suki.	20	16	61	33	63	59	120	32	105	20	10	5	120
13	細野 Hosono.	30	19	49	56	92	78	126	56	117	27	13	4	126
14	大牟田 Ōmuda.	24	16	46	48	51	65	54	57?	144	31	24	6	144
15	田野 Tano.	25	21	44	39	39	49	40	44	127	40	32	10	127
	佐土原川 Sadowara-gawa.													
16	村所 Marasho.	21	26	45	42	51	65	88	28	141	38	7	7	141
17	鹿野田 Kanoda.	24	12	48	54	50	40	49	35	91	41	10	7	91
	高鍋川 Takanabe-gawa.													
18	高鍋 Takanabe.	38	13	76	55	59	52	55	31	137	46	14	6	137
19	神門 Kado.	22	28	52	40	59	51	59	....	....	....	—	....	....
20	田代 Tashiro.	30	27	66?	42?	49	53	47	66	84	25	20	....	....
21	下福良 Shimofukura.	28	23	56	53	73	53	112	19	116	35	12	18	116
22	細島 Hososhima.	34	22	70	49	63	31	29	52	110	43	7	4	110
	五箇瀬川 Gokase-gawa.													
23	岡富 Okatomi.	33	11	66	62	68	30	42	8	122	48	10	6	122
24	七折 Nanaori.	16	19	50	37	47	41	38	21	71	47	11	6	71
25	三田井 Mitai.	17	20	39	62	28	44	50	30	60	34	12	9	62
26	三ヶ所 Sangasho.	20	23	41	38?	26	56	22	82	84	42	15	10	84
27	馬見原 Mamihara.	17	11	58	28	25	55	75	80	64	37	20	7	80
28	下直見 Shimonaomi.	18	15	30	33	29	27	27	24	97	38	11	2	97
29	佐伯 Saheki.	12	....	....	....	....	....	....	....	....	38	10	5	....
30	平城 Hiio.	—	—	—	—	—	—	—	—	105	31	36	7	—
31	八幡濱 Yawatahama.	20	11	26	15	30	11	19	27	100	24	19	6	100
32	宇和島 Uwajima.	27	13	38	19	21	10	33	17	128	26	18	10	128
33	清水 Shimizu.	70	40	48	36	44	44	51	19	160	14	35	2	111
	渡川 Watari-gawa.													
34	中村 Nakamura.	25	23	53	35	47	12	2	33	204	72	21	5	204
35	川崎 Kawasaki.	17	28	37	27	68	29	34	19	150	19	78	3	150
36	田野々 Fanono.	30	15	23	17	38	12	20	27	68	38	10	12	68
37	窪川 Kubokawa.	23	81	52	57	118	62	32	29	235	50	15	9	235
38	檮原 Isuhara.	26	17	54	37	61	22	68	31	101	40	23	9	101
39	興野々 Okinono.	16	18	34	23	45	16	27	15	135	32	12	7	135
40	須崎 Susaki.	—	—	—	--	--	--	—	10	194	32	74	5	—
	仁淀川 Niyodo-gawa.													
41	伊野 Ino.	52	66	25	59	102	58	38	35	86	64	19	4	102
42	越知 Ochi.	60	68	41	....	....	....	21	41	116	40	13	0	....

第二表　明治卅年最多降水量日數

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續	II. SOUTHERN SEA.—Continued.												
	仁淀川ノ續 Niyodo-gawa. (*Continued*)													
43	久主 Kusu.	41	20	30	40	44	20	49	20	130	41	26	48	130
44	久萬町 Kumamachi.	30	14	41	20	33	60	61	11	92	29	22	15	92
45	高知 Kōchi.	22	53	83	72	129	31	66	82	240	51	24	0	240
46	桑尾 Kuwao.	41	30	69	74	203	75	80	71	202	46	23	7	203
47	上野尻 Kaminojiri.	42	30	71	101	81	24	96	39	127	13	20	0	127
48	大栃 Ōdochi.	69	39	69	76	117	39	82	45	175	21	28	13	175
49	安藝 Aki.	—	—	—	—	—	—	—	11	83	40	15	0	—
50	田野 Tano.	45	33	64	57	45	27	23	19	126	47	3	0	126
51	津呂 Tsuro.	81	25	34	10	22	22	17	15	144	46	22	13	144
52	宍喰 Shishikui.	—	—	—	—	142	43	91	21	179	143	14	5	—
53	神野 Kamino.	—	—	—	—	70	41	77	60	150	95	15	—	—
54	日和佐 Hiwasa.	82	102	73	100	84	65	118	40	94	57	18	5	118
	那賀川 Naka-gawa.													
55	富岡 Tomioka.	52	15	29	57	58	55	84	38	132	39	16	1	132
56	和食 Wajiki.	88	52	59	32	80	94	43	83	238	70	15	2	238
57	小松島 Komatsujima.	54	10	38	26	38	78	49	13	139	43	7	1	139
	吉野川 Yoshino-gawa.													
58	德島 Tokushima.	27	12	33	17	46	46	20	14	166	48	14	3	166
59	東名 Tōnatō.	25	8	36	22	46	50	31	25	135	58	13	3	135
60	石井 Ishii.	23	8	38	29	45	53	51	32	88	62	32	3	88
61	川島 Kawashima.	20	9	31	15	33	35	34	28	77	50	11	4	77
62	市場 Ichiba.	35	12	29	28	32	33	38	13	252	36	7	7	252
63	脇町 Wakimachi.	12	5	25	17	23	42	28	27	76	29	9	6	76
64	池田 Ikeda.	12	10	12	11	35	32	36	32	138	29	16	12	138
65	本山 Motoyama.	46	16	54	52	138	33	27	49	280	77	15	5	280
66	川井 Kawai.	31	67	21	35	38	30	40	36	87	80	17	?	87
67	南濱 Minamihama.	17	5	27	31	29	52	59	5	96	13	5	5	96
68	小桑島 Kokuwashima.	35	5	29	34	35	58	32	4	97	16	4	5	97
	紀ノ川 Kino-kawa.													
69	和歌山 Wakayama.	38	15	17	36	28	62	123	13	169	19	44	3	169
70	清水 Shimizu.	29	16	23	39	23	27	126	3	100	15	40	5	126
71	野上 Nogami.	28	16	23	35	30	34	70	22	85	16	35	9	85
72	橋本 Hashimoto.	22	17	26	41	15	32	61	25	100	18	31	4	100
73	慶賀野 Keikano.	28	14	45	32	17	36	56	51	81	20	30	9	81
74	五條 Gojō.	22	16	28	42	26	38	56	11	102	14	33	6	102
75	和田 Wada.	—	—	—	—	—	—	—	—	128	....	27	9	....
76	吉野山 Yoshinoyama.	22	17	29	40	31	40	53	80	122	16	33	7	122
77	上市 Kamiichi.	21	16	20	37	41	41	54	38	82	14	12	5	82
78	柏木 Kashiwaki.	36	20	....	52	28	41	64	27	122	....	71	--	....
79	鷲家口 Washigaguchi.	—	—	—	—	—	—	—	—	....	—	13	9	—
80	神野市場 Ainoichiba.	38	21	28	49	40	45	113	20	97	20	36	8	113
81	高野山 Kōyasan.	30	23	38	46	48	39	90	21	137	18	40	14	137
82	東富貴 Higashifuki.	20	10	33	32	23	43	90	19	154	16	26	8	154
	有田川 Arita-gawa.													
83	吉原 Yoshiwara.	31	22	32	57	37	31	164	27	147	20	19	10	164
84	清水 Shimizu.	35	23	26	63	42	36	101	42	137	21	25	9	137
(81)	高野山 Kōyasan.	30	23	38	46	48	39	90	21	137	18	40	14	137
85	湯淺 Yuasa.	42	20	31	56	43	43	140	26	127	27	40	12	140
	日高川 Hitaka-gawa.													
86	御坊 Gobō.	67	25	27	46	33	41	58	16	85	33	24	13	85
87	高津尾 Takatsuo.	40	28	59	89	60	52	166	44	145	15	32	17	166
88	東 Higashi.	32	31	49	131	94	67	124	105	140	26	33	17	140
89	田邊 Tanabe.	53	20	26	30	38	148	77	18	151	33	40	12	151
90	栗栖川 Kurisukawa.	36	30	42	67	62	113	93	60	130	26	52	20	130
91	安居 Ago.	55	39	40	47	55	157	80	14	176	38	66	16	176
92	潮岬 Shiomisaki	58	68	72	89	99	99	108	68	130	51	80	2	130

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續	II. SOUTHERN SEA.—Continued.												
93	櫛野崎 Kashinosaki.	43	55	61	73	80	120	58	51	107	41	72	2	120
94	下中 Shimonaka.	32	72	48	48	62	60	120	28	128	30	48	12	128
95	日之岬 Hinomisaki.	70	27	30	43	51	55	71	17	225	42	23	2	225
	新宮川 Singu-gawa.													
96	新宮 Shingu.	67	47	52	73	145	91	96	9	156	76	62	5	156
97	本宮 Hongu.	32	35	47	79	56	126	125	52	184	33	41	6	184
98	小森 Komori.	25	31	40	57	61	69	88	44	185	13	....	6	185
99	川津 Kawazu.	—	25	32	56	72	63	128	33	169	19	23	6	169
100	南日裏 Minaminichiura.	24	46	22	40	47	39	94	26	140	14	22	15	140
101	大峯山 Ōmineyama.	—	—	—	—	—	—	89	....	200	....	—	—	....
102	洞川 Dōgawa.	30	38	28	40	68	21	—	....	—	....	24	17	....
103	玉置川 Tamakigawa.	26	22	39	100	62	68	73	18	190	24	38	6	190
104	大沼 Ōnuma.	32	31	57	60	58	68	100	20	268	35	99	4	268
105	寺垣内 Terakakiuchi.	40	15	47	76	76	65	125	49	231	35	84	4	231
106	河合 Kawai.	35	19	41	66	55	45	123	38	213	23	42	4	213
107	木之本 Kinomoto.	56	37	55	55	82	62	99	60	151	99	80	0	151
108	尾鷲 Owashi.	139	115	79	61	111	49	91	20	244	149	170	2	244
109	安乘崎 Anorisaki.	35	51	58	50	79	24	38	37	160	27	88	0	160
110	菅島 Sugashima.	33	39	46	31	67	105	54	32	187	38	150	2	187
111	鳥羽 Toba.	70	11?	63	87	64	74	59	11	217	35	141	8	217
112	山田 Yamada.	51	63	51	75	57	38	50	16	219	27	145	7	219
	櫛田川 Kusihda-gawa.													
113	西黒部 Nishikurobe.	37	23	29	61	41	42	50	6	144	18	81	7	144
114	相可 Ōka.	49	41	35	77	81	28	80	14	180	23	84	4	180
115	松坂 Matsusaka.	40	25	54	60	63	46	54	17	163	18	56	3	163
116	久居 Hisai.	31	35	37	74	54	35	40	4?	177	24	38	2	177
117	津 Tsu.	23	32	43	45	62	64	32	19	142	27	31	0	142
118	古河 Furukawa.	35	22	36	71	47	40	45	10	199	24	32	8	199
119	白子 Shiroko.	41	26	35	55	35	64	20	16	148	20	33	10	148
120	龜山 Kameyama.	40	33	44	74	57	39	44	13	170	26	37	11	170
121	四日市 Yokkaichi.	45	30	41	35	43	22	35	27	197	15	40	4?	197
122	四日市 Yokkaichi.	7	9	51	46	50	33	32	12	116	26	22	1	116
	員辨川 Inabe-gawa.													
123	桑名 Kuwana.	46	20	52	36	36	....	....	....	....	....	....	....	....
124	楚原 Sohara.	58	41	56	56	62	28	44	18	111	28	46	18	111
	木曾川 Kiso-gawa.													
(123)	桑名 Kuwana.	46	20	52	36	36	....	....	....	....	....	....	....	....
125	前ヶ須 Maigasu.	41	21	55	36	35	58	43	10	166	28	37	15	166
126	津島 Tsushima.	41	20	50	35	48	28	30	7	165	27	45	18	165
127	笠松 Kasamatsu.	36	12	56	30	75	28	46	21	153	28	40	26	153
128	犬山 Inuyama.	26	10	56	30	79	24	40	25	206	35	42	16	206
129	太田 Ōta.	24	10	65	36	60	21	65	82	....	....	44	14	....
130	中津川 Nakatsugawa.	11	2	33	6	96	2	94	24	126	50	50	1	126
131	吾妻 Azuma.	25	21	47	42	43	70	115	46	110	63	48	15	115
132	長野 Nagano.	36	26	32	44	44	57	68	42	132	65	54	13	132
133	駒ヶ根 Komagane.	....	....	....	....	....	....	86	....	....	40	38	2	....
134	福島 Fukushima.	28	19	....	....	....	14	91	28	113	25	44	8	....
135	王滝 Ōtaki.	29	34	58	63	45	20	80	49	152	44	52	17	152
136	開田 Kaita.	29	17	52	54	45	22	145	37	120	28	41	5	145
137	高須 Takasu.	72	20	45	62	70	30	44	22	201	20	41	30	201
138	高田 Takata.	48	19	57	41	102	33	55	21	177	27	66	23	177
139	大垣 Ōgaki.	41	12	52	34	75	34	57	29	147	26	48	27	147
140	垂井 Tarui.	47	20	48	50	113	26	91	38	154	30	57	32	154
141	三輪 Miwa.	41	20	91	86	205	60	84	65	144	38	40	30	205
142	德山 Tokuyama.	24	43	63	42	72	39	112	31	118	31	41	18?	118
143	岐阜 Gifu.	33	14	68	36	63	33	63	15	139	32	51	21	139
144	知有 Kozuchi.	31	12	73	59	98	35	78	14	188	37	12	13	188
145	八幡 Hachiman.	37	25	81	111	77	50	120	71	154	52	50	15	154
146	白鳥 Shirotori.	30	27	67	68	69	45	163	55	123	39	50	29	163
147	北方 Kitakata.	34	17	66	39	84	40	57	31	145	30	52	28	145
148	長嶺 Nagamine.	39	21	72	74	86	52	87	52	127	46	97	16?	127
149	高富 Takatomi.	34	20	76	54	95	53	75	40	137	38	54	18	137

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續													
	木曾川ノ續 Kiso-gawa. (*Continued.*)													
150	葛原 Kuzuhara.	39	30	60	117	126	55	151	45	182	80	35	31	182
151	御嵩 Mitake.	27	15	64	36?	62	21	71	41	195	46	45	14	195
152	金山 Kanayama.	29	19	60	82	77	71	91	57	199	43	48	19	199
153	森 Mori.	27	20	54	70	54	37	97	54	204	46	52	14	204
154	萩原 Hagihara.	—	—	—	—	—	—	—	—	—	11	61	21	—
155	關ケ原 Sekigahara.	52	19	46	36	82	29	75	29	133	17	46	38	133
156	稻澤 Inasawa.	36	16	66	32	44	38	40	9	146	33	48	15	146
157	島 Shima.	29	12	68	32	59	70	36	35	123	29	47	20	123
	庄內川 Shonai-gawa.													
158	下小田井 Shino-odai.	32	15	62	28	43	41	33	15	142	27	42	14	142
159	勝川 Kachikawa.	25	15	67	29	41	29	44	12	124	31	41	13	124
160	高山 Takayama.	19	12	43	26	52	17	61	18	113	34	43	13	113
161	寺野 Terano.	—	—	—	31	46	34	42	28	154	29	47	13	—
162	布袋野 Hoteno.	34	11	69	30	63	28	47	22	152	30	41	15	152
163	瀨戸 Seto.	26	13	54	34	43	28	41	6	139	31	43	9	139
164	名古屋 Nagoya.	32	18	71	29	41	129	16	10	150	34	43	15	150
165	熱田 Atsuta.	37	22	53	28	39	139	21	17	155	26	43	13	155
166	大野 Ono.	39	21	45	30	37	83	49	7	178	25	40	10	178
167	小鈴谷 Kosuzuya.	35	18	45	31	42	31	99	4	172	36	55	11	172
168	豐濱 Toyohama.	27	19	43	23	52	28	38	4	132	15	61	11	132
169	半田 Handa.	33	21	53	29	38	69	33	7	136	38	46	14	136
170	知立 Chiriu.	39	17	53	34	38	57	24	27	138	28	45	10	138
	矢作川 Yasaku-gawa.													
171	西尾 Nishio.	43	10	40	33	47	26	29	8	164	28	49	13	164
172	岡崎 Okazaki.	24	11	37	33	41	38	18	12	110	33	41	17	110
173	擧母 Koromo.	28	15	31	35	36	23	18	30	107	30	44	12	107
174	上 Kami.	25	17	47	53	56	13	68	52	74	48	55	15	74
175	鴨宍 Kameana.	29	15	57	84	80	52	40	133	139	41	51	20	139
176	足助 Asuke.	30	16	36	39	54	21	24	9	110	33	48	14	110
177	一色 Isshiki.	32	12	41	38	48	29	28	4	165	28	55	13	165
178	佐久島 Sakushima.	28	11	40	26	49	20	49	1	161	16	62	11	161
179	御油 Goyu.	25	15	79	50	68	95	23	2	111	37	43	15	111
	豐川 Toyo-kawa.													
180	豐橋 Toyohashi.	24	15	69	48	82	66	22	1	159	36	41	15	159
181	富岡 Tomioka.	31	16	89	85	67	47	23	18	160	48	53	18	160
182	新城 Shinshiro.	24	15	78	83	93	118	30	19	153	52	59	20	153
183	田口 Taguchi.	39	38	63	89	84	42	75	28	126	76	58	19	126
184	清岳 Kiyo-oka.	25	40	73	88	103	42	49	64	194	56	68	22	194
185	堀切 Horikiri.	29	28	39	25	55	49	38	5	182	21	57	14	182
186	濱松 Hamamatsu.	26	23	99	41	119	77	18	35	222	28	28	2	222
	天龍川 Tenriu-gawa.													
187	掛塚 Kakezuka.	—	—	—	59	150	35	25	28	138	....	....	....	....
188	二俣 Futamata.	23	29	84	120	107	50	47	50	237	39	59	—	237
189	下田 Shimoda.	24	18	54	92	75	35	41	49	113	48	65	20	113
190	飯田 Iida.	....	18	....	....	....	....	....	19	111	31	30	2	....
191	伊那 Ina.	24	28	29	40	31	9	90	19	96	15	29	2	96
192	朝日 Asahi.	17	....	20	30	....	....	68	22	96	16	31	1	....
193	上諏訪 Kamisuwa.	29	9	26	21	25	14	67	30	67	18	37	0	67
194	北山 Kitayama.	23	16	37	31	20	27	55	30	75	17	52	—	75
195	御前崎 Omaisaki.	20	65	80	67	74	32	30	38	165	35	30	0	165
196	島田 Shimada.	21	30	71	70	125	63	37	22	150	56	22	—	150
	富士川 Fuji-kawa.													
197	岩淵 Iwabuchi.	46	63	40	82	80	49	69	32	191	40	34	0	191
198	横山中區 Yokonechuku.	31	48	23	42	30	16	23	39	98	35	37	0	98
199	印澤 Inzawa.	....	....	....	34	35	16	36	....	....	....	....	....	....
200	鰍澤 Kajikazawa.	58	....	27	37	43	....	....	....	....	....	....	....	....

第二表　明治廿年中最多降水日量

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續	II. SOUTHERN SEA.—Continued.												
	富士川ノ續 Fuji-kawa. (*Continued*)													
201	住吉 Sumiyoshi.	26	26	10	22	16	28	....	21	137	....	28	....	....
202	鵜飼 Ugai.	....	....	....	....	....	....	....	26	....	....	....	....	....
203	駒飼 Komagai.	....	....	8	....	....	....	....	31	76	33	27	....	....
204	小原西分 Koharanishibun.	30	20	11	17	15	22	32	40	80	18	23	0	80
205	甲府 Kōfu.	29	19	11	28	14	24	31	25	79	36	22	0	79
206	龍王 Riuō.	19	29	14	28	21	27	32	5	150	20	25	0	150
207	御嶽 Ontake.	....	17	37	20	17	34	41	33	129	23	50	....	....
208	韮崎 Nirasaki.	36	31	10	32	17	36	43	38	153	20	32	9	153
209	神子若 Wakamiko.	34	....	11	27	22	15	....	17	111	20	23	....	....
210	須白 Shirasu.	29	....	17	27	30	22	53	15	148	....	20	....	....
211	湯島 Yushima.	41	52	23	65	41	....	90	10	188	....	19	....	....
212	西湖 Nishinoumi.	25	....	9	27	83	20	62	28	217	27	36	....	....
213	古關 Koseki.	42	....	....	....	....	2	3	3	....	....	....	....	....
214	富士見 Fujimi.	36	11	22	36	47	42	58	26	110	23	44	9	110
215	大宮 Ōmiya.	38	51	33	....	....	....	....	....	....	....	....	....	....
216	長濱 Nagahama.	20	....	9	24	75	26	55	28	212	28	36	....	....
217	谷村 Yamura.	38	40	13	33	68	15	23	23	195	34	45	0	195
218	猿橋 Sarubashi.	....	11	12	....	....	....	....	....	....	....	....	....	....
	狩野川 Kano-gawa.													
219	沼津 Numatsu.	25	26	22	55	63	20	48	16	194	35	26	0	194
220	本立野 Hontachino.	48	21	20	20	39	85	....	....	....	....	....	....	....
221	長津呂 Nagatsuro.	24	25	51	59	32	36	37	72	78	18?	21?	9	78
222	石室崎 Irosaki	24	22	65	50	25	48	18	66	72	23	16	8	72
223	神子元島 Mikomotoshima.	12	10	22	34	28	27	27	41	134	46	41	3	134
224	熱海 Atami.	36	36	20	68	132	42	32	27	130	23	36	2	132
225	城ヶ島 Jōgashima.	54	24	48	47	73	15	15	21	45	7	6	0	72
226	劍崎 Tsurugisaki.	14	64	20	51	67	29	19	40	81	53	30	0	81
227	觀音崎 Kanonsaki.	27	69	31	97	60	28	88	11	120	63	42	0	120
228	橫須賀 Yokosuka.	31	45	31	124	67	28	46	14	114	52	29	1	124
229	橫濱 Yokohama.	72	32	17	86	93	41	75	13	120	58	30	0	120
230	橫濱 Yokohama.	36	23	16	67	46	29	75	11	115	48	20	0	115
	多摩川 Tama-gawa.													
231	羽田 Haneda.	22	17	12	33	26	25	40	16	87	22	25	0	87
232	大師河原 Daishigawara.	25	15	17	72	27	43	52	14	92	49	22	—	92
233	八王寺 Hachiōji.	35	45	19	41	105	25	40	43	138	37	38	0	138
234	千ヶ瀨 Chigase.	22	26	10	37	99	47	85	43	129	32	37	—	129
235	丹波山 Tanbayama.	—	—	—	—	—	34	32	....	....	....	....	....	....
236	品川 Shimagawa.	40	30	23	85	52	38	55	30	93	77	29	—	93
	荒川 Ara-kawa.													
237	東京 Tōkiō.	30	18	10	43	44	46	47	15	73	51	24	0	73
238	浦和 Urawa.	19	20	16	22	56	22	49	87	112	29	30	0	112
239	熊谷 Kumagaya.	24	22	....	....	....	....	....	....	....	....	....	....	....
240	熊谷 Kumagaya.	15	23	12	39	43	34	31	48	76	50	26	0	76
241	大宮鄉 Ōmiyagō.	46	4	7	22	71	28	25	31	54	27	24	0	71
242	飯能 Hanno.	20	23	8	30	86	49	47	23	122	31	28	0	122
243	真間 Mera.	—	—	—	—	—	30	37	43	118	89	33	2	—
244	島崎 Noshimasaki.	23	35	27	65	25	34	36	35	60	77	21	5	77
245	吠崎 Inuboyesaki.	42	23	47	48	35	31	62	8	182	81	32	2	182
	利根川 Tone-gawa.													
246	銚子 Chōshi.	26	17	32	34	26	32	59	15	154	79	32	3	154
247	關宿 Sekiyado.	23	20	21	17	31	44	34	50	130	32	31	0	130
248	前橋 Maebashi.	19	17	14	22	51	61	40	38	95	26	39	0	95
249	渋川 Shibukawa.	18	16	17	23	36	31	46	32	69	30	37	—	69
250	沼田 Numada.	17	19	17	21	13	21	43	64	87	37	33	7	87
251	小日向 Kobinata.	17	32	17	44	24	37	46	55	103	41	32	7	103
252	下館 Shinodate.	21	22	32	35	22	68	29	76	175	36	33	0	175
253	眞岡 Maoka.	12	28	20	28	20	48	75	30	139	35	27	—	139
254	宇都宮 Utsunomiya.	18	25	28	57	29	61	53	71	86	35	33	1	86

第二表　明治卅年最多降水日量

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續　II. SOUTHERN SEA.—Continued.													
	利根川ノ續 Tone-gawa. (*Continued*)													
255	日光 Nikkō.	—	—	—	—	—	—	58	76	150	62	40	1	—
256	鹿沼 Kanuma.	18	25	25	42	67	101	29	45	128	32	28	0	128
257	栃木 Tochigi.	13	19	15	38	65	96	112	84	136	32	32	0	136
258	佐野 Sano.	32	29	25	40	61	70	43	60	106	28	28	0	106
259	舘林 Tatebayashi.	21	20	16	30	62	62	22	51	123	33	33	0	123
260	足利 Ashikaga.	8	31	25	20	25	40	35	41	85	39	22	—	85
261	太田 Ōta.	13	10	10	26	51	50	22	56	110	24	29	—	110
262	桐生 Kiriu.	22	14	14	25	32	56	34	70	86	35	30	—	86
263	花輪 Hanawa.	17	24	16	43	28	55	38	99	92	31	29	—	99
264	伊勢崎 Iszaki.	21	15	19	33	41	28	43	145	77	31	38	—	145
265	万場 Manba.	21	10	10	17	49	43	32	69	122	28	31	0	122
266	藤岡 Fujioka.	18	16	9	24	79	48	33	40	122	26	32	—	122
267	富岡 Tomioka.	24	10	7?	19	67	47	28	20	100	20	20	1	100
268	下仁田 Shimonida.	20	11	11	28	50	44	37	42	111	18	36	0	111
269	高崎 Takasaki.	22	14	11	25	53	76	38	20	100	23	36	0	100
270	安中 Annaka.	23	3?	12	16	72	42	35	22	89	19	45	—	89
271	三ノ倉 Sannokura.	17	13	19	23	75	46	82	67	92	22	44	—	92
272	須賀川 Sukagawa.	38	14	20	23	10	33	66	93	40	....	....	....	....
273	中ノ條 Nakanojō.	20	28	16	24	69	29	40	36	90	36	36	—	90
274	草津 Kusatsu.	19	19	45	29	....	....	38	59	49	26	37	2	....
	第三區　東海　III. EASTERN SEA.													
	那賀川 Naka-gawa.													
1	水戸 Mito.	26	22	29	71	32	22	37	41	81	49	90	0	90
2	矢板 Yaita.	20	29	26	39	45	64	28	40	132	56	33	—	132
3	太田原 Ōtawara.	23	33	32	39	37	92	42	73	130	43	24	—	130
4	大子 Daigo.	22	42	68?	50	38	27	38	58	122	54	29	0	122
5	棚倉 Tanagura.	38	29	41	44	29	34	36	54	130	24	....	....	....
6	平 Taira.	50	61	62	85	97	27	24	24	24	18	21	—	97
7	富岡 Tomioka.	52	8	47	30	17	29	29	61	400	7	50	—	400
8	中村 Nakamura.	45	8	47	61	61	39	28	10	67	67	30	—	67
	阿武隈川 Abukuma-gawa.													
9	角田 Kakuda.	37	11	26	49	64	39	38	16	133	84	27	3	133
10	桑折 Kōri.	19	2	28	3	23	20	47	32	141	62	26	18	141
11	福島 Fukushima.	23	13	30	41	36	19	41	34	146	76	27	5	146
12	二本松 Nihonmatsu.	17	10	38	26	29	1	42	44	117	61	17	1	117
13	三春 Miharu.	14	7	25	26	26	18	61	91	61	23	4	8	91
14	郡山 Kōriyama.	4	0	15	....	....	18	76	53	186	125	33	2	....
15	須賀川 Sukagawa.	14	14	29	21	28	25	70	87	159	41	34	1	159
16	石川 Ishikawa.	25	2	2	5	3	3	5	2	9	1	1	0	25
17	白河 Shirakawa.	23	20	29	30	5	36	50	30	126	33	34	1	126
18	大河原 Ōkawara.	28	13	30	52	65	9	59	20	110	80	28	4	110
	名取川 Natori-gawa.													
19	長町 Nagamachi.	11	10	29	62	44	20	67	32	124	89	30	7	124
20	仙臺 Sendai.	21	17	33	84	75	12	35	31	159	76	36	5	159
21	仙臺 Sendai.	29	22	30	72	48	35	85	68	119	75	23	4	119
22	南ノ目 Minaminome.	27	21	30	69	54	39	106	25	127	84	35	4	127
	鳴瀬川 Naruse-gawa.													
23	古川 Furukawa.	15	20	12	51	35	9	75	65	110	60	20	3	110
24	吉岡 Yoshioka.	24	29	30	75	67	22	135	45	156	86	36	8	156
	北上川 Kitakami-gawa.													
25	石巻 Ishinomaki.	22	20	37	43	60	16	62	51	136	101	38	1	136
26	飯野川 Iinogawa.	11	8	17	....	16	12	13	63	187	68	....	....	....
27	一ノ關 Ichinoseki.	12	13	16	13	13	7	23	40	46	13	12	12	46
28	水澤 Mizusawa.	23	35	42	52	47	76	46	121	127	69	32	21	127
29	花巻 Hanamaki.	21	21	17	29	29	41	37	53	41	56	23	10	56
30	盛岡 Morioka.	23	37	30	39	48	44	65	48	39	38	28	6	65
31	涌谷 Wakuya.	17	20	22	54	47	21	93	72	145	80	31	3	145
(23)	古川 Furukawa.	15	20	12	51	35	9	75	65	110	60	20	3	110

第二表 明治卅年最多降水日量粁

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第三區 東海ノ續 III. EASTERN SEA.—Continued.													
	北上川ノ續 Kitakami-gawa. (*Continued*).													
32	佐沼 Sanuma.	18	....	12	40	43	27	46	82	123	48	38	2	....
33	築館 Tsukidate.	—	23	47	64	41	31	64	106	150	....	15	4	....
34	遠野 Tōno.	11	28	43	58	32	45	42	65	52	32	38	6	65
35	金花山 Kinkwa-san.	62	7	32	35	57	17	58	38	64	100	41	1	100
36	本吉 Motoyoshi.	20	10	36	....	60	32	25	14?	150	70?	40	....	....
37	盛 Sakari.	30	41	68	98	95	63	44	100	131	135	61	1	135
38	宮古 Miyako.	87	6	38	45	85	28	29	48	131	100	45	3	131
39	久慈 Kuji.	61	3	15	74	42	29	23	34	63	78	44	3	78
	馬淵川 Mabuchi-gawa.													
40	三戸 Sannohe.	36	5	20	35	33	27	52	47	62	59	28	9	62
41	福岡 Fukuoka.	45	5	25	33	46	25	57	41	64	48	32	6	24
42	七戸 Shichinohe.	29	15	16	66	29	76	36	41	65	93	23	27	93
43	下帶廣 Shimo-obihiro.	10	11	27	39	25	32	23	18	39	76	11	8	76
44	白糠 Shironuka.	58	31	15	37	26	29	27	18	85	—	....	....	....
45	舌辛 Shitakara.	21	11	24	30	....	45	65	63	35	39	....	....	....
	釧路川 Kushiro-gawa.													
46	釧路崎 Kushirozaki.	21	20	31	144	54	71	40	49	67	57	4	1	144
47	標茶 Shibecha.	22	15	46	80	29	44	17	37	50	43	7	2	80
48	大黒島* Daikokushima.*	14	5	14	6	20	35	34	10	104	104	14	1	104
49	落石崎 Otochishisaki.	34	38	68	88	33	44	39	31	123	77	9	2	123
50	納沙布崎 Nashiafusaki.	22	10	14	18	11	22	9	8	31	70	4	2	70
51	辨天島 Bentenshima.	33	21	27	20	26	31	11	29	44	41	5	5	44
52	根室 Nemuro.	33	5	21	33	17	21	9	21	51	35	3	3	51
53	別海 Bekkai.	27	13	13	14	30	13	36	33	35	14	1	3	36
54	計羅武威岬 Keramuimisaki.	11	4	53	28	36	44	28	44	159	108	3	5	159
55	泊 Tomari.	31	10	15	35	33	38	17	3	82	87	12	1	87
56	薗取 Shibatoro.	26	25	21	43	16	19	21	13	18	15	1	2	43
	第四區 內海 甲 南岸 IV. INLAND SEA. a. S. Coast.													
1	部崎 Hesaki.	40	29	37	30	34	45	115	52	122	11	21	19	122
2	行事 Gioji.	17	19	29	24	70	20	152	69	65	13	13	14	152
3	椎田 Shiita.	16	18	30	15	60	42	170	18	75	15	14	15	170
4	戸原 Tohara.	12	27	32	26	45	43	78	30?	73	24	32	6?	78
5	中津 Nakatsu.	16	15	26	12?	45	27	96	95	95	46	8	8	96
6	四日市 Yokkaichi.	13	21	32	15	26	22	91?	64	43	19	10	5	91
7	龍王 Riuō.	10	21	30	19	21	19	67	33	81	16	15	15	81
8	玉津 Tamatsu.	19	24	35	12?	15	24	40	23	48	16	12	6	48
9	鶴川 Tsurukawa.	17	18	33	30	46	15?	43	26	86	22	8	4?	86
10	日出 Hide.	18	21	32	24	28	31	28	31	43	24	8	2	43
	大分川 Oita-gawa.													
11	大分 Oida.	17	25	37	20	44	34	22	18	91	20	16	2	91
12	高岡 Takaoka.	16	25	43	26	38	46	28	32	57	27	11	....	....
	大野川 Ono-gawa.													
13	市場 Ichiba.	20	24	35	41	33	27	25	37	70	30	10	4	70
14	竹田 Takeda.	13	14	39	13	11?	18	29	33	67	65	12	10	67
15	臼杵 Usuki.	15	22	38	28	18	23	24	12	134	34	12	3	134
	肱川 Hiji-kawa.													
16	大洲 Ōzu.	27	12	32	23	42	16	15	23	62	23	14	7	62
17	卯ノ町 Unomachi.	31	13	58	16	42	18	44	30	82	38	20	10	82
18	郡中 Gunchu.	23	12	23	21	22	31	67	25	64	36	16	10	67
19	松山 Matsuyama.	26	13	24	14	22	31	38	22	69	29	21	9	69
20	三津 Mitsu.	33	12	26	18	24	31	33	22	58	28	30	4	58
21	釣島 Tsurishima.	15	13	34	30	38	37	55	33	145	24	38	1	145
22	大下島 Ōgeshima.	16	20	33	15	29	95	60	20	144	20	46	1	144
23	波止濱 Hashihama.	18	11	23	17	24	68	61	19	90	26	29	4	90
24	今治 Imabari.	16	12	24	17	25	69	24	19	125	29	31	4	125

* 厚岸灣 Gulf of Akkeshi.

第二表 明治卅年最多降水日量

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 甲 内海ノ續 南岸ノ續	IV. INLAND SEA.—Continued. a S. Coast.—Continued.												
25	西條 Saijō.	22	10	20	15	29	28	24	10	114	39	21	3	114
26	多喜濱 Takihama.	19	9	20	....	....	....	....	14	103	51	13	3	....
27	三島 Mishima.	—	—	—	22	28	27	18	11	118	57	22	5	—
28	川ノ江 Kawanoe.	23	8	20	—	—	—	—	—	—	—	—	—	—
29	大野原 Ōnohara.	....	....	....	....	....	....	....	18	70	....	....	....	....
	財田川 Takarada-gawa.													
30	觀音寺 Kwanonji.	....	5	....	....	38	28?	....	23	....	27	....	13	....
31	財田上 Takaradakami.	25	6	28	25	33	23	26	27	110	36	13	19	110
32	七個 Shichika.	23	4	25?	20	32	32	23	17	134	37	12	12	134
33	大濱浦 Ōhamaura.	19	8	....	....	....	....	....	....	....	....	....	....	....
34	多度津 Tadotsu.	22	5	27	14	31	63	28	19	139	30	16	8	139
35	稻木 Inaki.	—	—	—	—	—	65	22	11	152	35	13	6	—
36	岡田下 Okadashita.	20	6	30	15	27	49	28	10	112	37	14	6	112
37	琴平 Kotohira.	25	6	27	20	39	50	15	40	122	41	12	12	122
38	宇多津 Udatsu.	21	10	18	22	41	71	30	16	156	31	18	10	156
39	阪出 Sakaide.	22	4	....	15	30	58	....	....	....	....	....	....	....
40	阪出 Sakaide.	....	....	26	11	33	....	....	....	....	....	....	....	....
41	新名 Shinmei.	21	5	32	19	33	48	28	13	106	44	18	9	106
42	扮所西 Sogishonishi.	22	5	30	18	33	49	21	21	125	40	13	11	125
43	安原下 Yasuharashimo.	18	7	20	18	33	55	20	32	115	40	14	11	115
44	高松 Takamatsu.	24	6	26	20	28	47	34	6	104	37	24	6	104
45	長尾西 Nagaonishi.	19?	5	18?	17	28	51	26	8	80	31	14	5	80
46	土庄 Tonoshō.	27	6	23	16	31	54	41	1	100	30	16	5	100
47	鍋島 Nabeshima.	20	9	25	23	35	64	35	14	73	27	25	5	73
48	男木島 Ogishima.	20	17	25	25	50	67	34	2	152	30	29	4	152
49	松原 Matsubara.	28	5	30	24	42	50	34	2	80	57	14	4?	80
50	江崎 Yesaki.	24	8	46	65	68	68	123	1	401	34	47	4	401
51	豐島 Tomogashima.	73	20	25	77	57	88	193	5	166	31	51	2	193
	第四區 乙 内海ノ續 北岸	IV. INLAND SEA.—Continued. b N. Coast.												
1	壇浦 Dannoura.	27	20	39	20	63	46	117	52	106	50	19	17	117
	木屋川 Kiya-gawa.													
2	上保木 Kamiboki.	23	18	56	23	76	45	92	56	80	25	25	19	92
	厚東川 Koto-gawa.													
3	太田 Ōta.	22	11	36	22	73	48	73	49	92	13	2	3	92
4	嘉萬上鄉 Kamakamigō.	28	25	42	37	88	57	77	52	99	23	18	20	99
	椹野川 Fushino-kawa.													
5	山口 Yamaguchi.	28	16	48	....	99	53	98	54	86	64	26	....	....
6	三田尻 Mitajiri.	24	12	53	54	88	58	118	30	75	50	15	5	118
7	室積 Murotsumi.	12	12	61	53	56	47	93	25	121	29	39	12	121
	錦川 Nishiki-gawa.													
8	岩國 Iwakuni.	24	17	46	12	138	88	145	34	30?	13?	23	1?	145
9	鹿野上 Kanokami.	28	22	95	47	58	80	138	53	105	97	25	31	138
10	大竹 Ōtake.	28	10	30	54	108	77	122	36	137	40	20	10?	137
11	津田 Tsuda.	26	11	37	31	93	124	98	50	91	36	22	21	124
12	廿日市 Hatsukaichi.	16	32	30	11?	20	27	90	30	171	30	17	13	171
	太田川 Ōta-gawa.													
13	廣島 Hiroshima.	19	19	32	47	83	78	69	39	117	25	29	8	117
14	可部 Kabe.	23	18	28	28	75	92	61	35	58	12	16	2	92
15	加計 Kake.	23	8	35	24	74	87	103	46	89	14	20	25	103
16	井原 Ihara.	4	30	5	9	12	104	80	30	153	10	20	19	104
17	戸河内 Togauchi.	21	15	28	28	24	51	100	78	112	21	21	10	112
18	東八幡 Higashiyawata.	10	9	20	....	....	....	....	....	....	....	....	....	....
19	政所 Seisho.	....	31	30	51	41	60	59	30	61	20	21	12	....
20	吉和 Yoshiwa.	....	30	29	35	80	116	116	50	87	87	27	12	....
21	上瀨野 Kamiseno.	....	....	....	....	56	102	112	47	80	17	16	14	....
22	吉浦 Yoshiura.	27	9	19	30	55	72	107	18	86	17	13	....	....
23	吳 Kure.	18	11	30	43	71	73	90	17	135	28	28	0	135

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 乙 内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. b N. Coast.—Continued.												
24	南方 Minamikata.	15	9	17	21	33	72	68	22	59	16	20	11	72
25	西條 Saijō.	26	12	20	24	48	100	99	34	54	25	19	12	100
26	竹原 Takehara.	23	18	26	19	34	88	107	24	63	21	42	8	107
27	大久野島 Ōkunoshima.	18	16	30	23	36	34	55	28	212	34	40	1	212
28	忠海 Tadanomi.	24	10	25	16	38	71	80	21	74	18	13	5	80
29	戸野 Tono.	33	8	15	30	50	100	80	30	55	20	24	3	100
30	乃美 Nomi.	12	5	18	8	120	110	10	20	80	....	....	....	....
31	尾道 Onomichi.	35	11	19	14	34	60	75	19	48	13	10	2	75
32	松永 Matsunaga.	38	44	20	15	38	76	59	17	60	29	10	1	76
33	百貫島 Hiakkwanshima.	14	11	27	18	29	14	41	38	69	18	16	3	69
34	鞆 Tomo.	33	12	21	11	42	58	35	14	89	25	22	5	89
	芦田川 Ashida-gawa.													
35	福山 Fukuyama.	47	7	17	16	35	81	54	9	59	30	14	8	81
36	府中市 Fuchuichi.	23	11	28	18	37	113	86	17	59	13	13	12	113
37	甲山 Kōzan.	50	7	20	16	34	95	92	....	51	24	15	25	....
38	市村 Ichimura.	20	20	20	38	103	97	62	16	70	12	16	12	103
39	江木 Yeki.	40	7	17	24	45	99	70	38	51	24	18	0	99
40	東中條 Higashinakajō.	39	8	25	15	37	102	35	25	49	19	5	12	102
41	笠岡 Kasaoka..	40	5	19	12	30	90	81	6	60	36	17	7	90
42	玉島 Tamashima.	46	5	22	22	31	75	48	6	70	36	21	8	75
	高梁川 Takahashi-gawa.													
43	倉敷 Kurashiki.	48	5	21	14	38	90	43	22	86	40	25	9	90
44	岡田 Okada.	48	6	23	15	30	86	48	5	68	45	23	15	86
45	高梁 Takahashi.	50	10	30	20	37	47	51	16	60	51	19	21	60
46	新見 Niimi.	52	13	23	19	38	43	55	12	48	33	16	22	55
47	西江原 Nishiebara.	36	7	18	15	39	98	50	28	63	37	20	15	98
48	東城 Tōjō.	45	13	28	20	44	59	68	21	50	43	20	27	68
49	油木 Yuki.	40	17	22	21	38	55	45	22	44	35	20	22	55
50	原古才 Harakosai.	46	5	22	16	29	75	40	11	72	48	20	12	75
51	味野 Ajino.	19	17	20	19	35	62	36	16	129	28	25	2	129
52	東野崎 Higashinosaki.	37	5	24	15	34	62	27	11	105	33	26	6	105
	旭川 Asahi-gawa.													
53	下出石 Shimoizuishi.	52	9	20	17	28	76	35	25	87	40	21	10	87
54	岡山 Okayama.	25	29	22	16	41	71	47	19	103	38	24	2	103
55	金川 Kanagawa.	58	7	24	19	23	48	26	20	81	60	30	15	81
56	下弓削 Shimoyuge.	50	8	34	21	31	59	40	83	78	64	19	17	83
57	勝山 Katsuyama.	48	28	29	29	48	45	79	28	51	50	12	18	79
58	湯本 Yumoto.	29	18	28	40	49	36	103	43	55	47	15	20	103
59	西鯉部 Nishikarube.	46	6	25	21	32	69	53	10	86	52	32	6	86
	吉井川 Yoshii-gawa.													
60	西大寺 Saidaiji.	46	7	22	17	32	75	27	2	92	36	21	9	92
61	津山 Tsuyama.	30	10	26	39	36	43	42	15	84	58	22	10	84
62	倉敷 Kurashiki.	52	6	28	20	36	49	37	26	89	57	24	16	89
63	勝間田 Katsumada.	60	13	39	30	33	50	35	16	60	61	20	19	61
64	西片上 Nishikatakami.	41	7	23	18	39	74	84	13	103	31	19	11	103
	千種川 Chikusa-gawa.													
65	大持 Daimochi.	25	35	38	34	43	68	51	11	95	59	31	12	95
66	佐用 Sayō.	24	45	46	30	32	53	80	14	79	44	28	19	80
	揖保川 Ibo-gawa.													
67	龍野 Tatsuno.	41	14	47	37	83	67	81	12	145	38	22	11	145
68	安積 Azumi.	29	35	66	35	37	52	89	28	110	44	21	5	110
	市川 Ichi-kawa.													
69	西田原 Nishitawara.	27	31	63	40	36	50	124	30	128	34	24	17	128
70	生野 Ikuno.	34	38	50	45	76	80	97	28	136	57	41	5	136
	加古川 Kako-gawa.													
71	加古川 Kakogawa.	25	25	49	35	50	50	82	20	34?	20	3	12	82

第二表　明治卅年最多降水日量

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區乙 内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. b *N. Coast.—Continued.*												
	加古川ノ續 Kako-gawa. (*Continued.*)													
72	佐治 Saji.	30	39	44	59	72	65	79	37	133	55	14	12	13g
73	篠山 Sasayama.	33	23	46	87	55	37	67	10	208	46	30	14	208
74	和田岬 Wadanomisaki.	38	13	83	41	49	41	67	2	83	26	39	10	83
75	神戸 Kōbe.	28	9	29	67	44	53	85	15	130	30	44	4	130
	池田川 Ikeda-gawa.													
76	池田 Ikeda.	37	24	29	67	....	44	65	11	64	25	37	0?	67
77	宿野 Shukuno.	31	—	28	45	31	....	94	30	60	25	32	18	94
78	地黄 Jiō.	18	11	35	46	43	31	50	22	96	11	39	18	96
	淀川 Yodo-gawa.													
79	本島 Hontorishima.	24	12	27	53	28	41	70	40	78	11	51	5?	78
80	天保山 Tenpōsan.	25	9	17	47	43	58	75	22	123	15	53	2	123
81	大阪 Ōsaka.	21	13	27	55	25	41	78	24	76	12	53	16	87
82	大阪 Ōsaka.	24	13	26	51	27	38	53	26	83	12	57	9	83
83	大阪 Ōsaka.	23	13	24	49	28	42	74	25	75	11	52	16	75
84	天王寺 Tennōji.	22	....	....	38	23	33	53	13	64	9	49	3	....
85	茨木 Ibaraki.	21	15	29	60	41	34	82	37	91	12	46	17	91
86	牧方 Hirakata.	18	14	32	30	33	37	61	29	79	15	45	1	79
87	向日 Mukō.	22	17	32	57	57	30	65	20	97	16	36	20	97
88	淀 Yodo.	22	20	32	63	49	25	48	18	93	16	45	26	93
89	伏見 Fushimi.	22	17	29	48	64	37	76	10	66	18	59	19	76
90	醍醐 Daigo.	20	20	37	55	39	34	56	17	78	12	43	18	78
91	草津 Kusatsu.	24	19	37	49	32	40	....	34	77	14	45	34	77
92	水口 Minaguchi.	19	10	36	44	28	27	32	40	129	14	36	20	129
93	八幡 Hachiman.	28	33	35	46	51	34	36	18	103	19	43	21	103
94	愛知川 Echigawa.	25	35	30	40	27	34	36	40	105	10	40	19	105
95	山上 Yamakami.	21	22	—	31	59	29	34	14	98	8	30	16	98
96	彦根 Hikone.	24	20	30	35	48	39	50	21	66	28	22	10	66
97	長濱 Nagahama.	51	11	51	29	52	37	73	41	73	18	33	27	73
98	木本 Kinomotn.	50	....	40	29	55	42	75	17	89	32	35	43	—
99	本内 Nakakawachi.	36?	....	31?	57	72	28	53	45	109	33	49	85	109
100	中河 Imazu.	34	35	33	37	45	45	55	9	96	20	43	21	96
101	今津 Hiezan.	20	28	37	47	43	57	62	24	99	20	49	23	99
102	比叡山 Ōtsu.	26	18	41	52	45	34	49	9	91	13	42	19	91
103	大津 Tanabe.	16	15	30	54	42	27	67	11	82	13	41	16	82
104	田邊 Kizu.	14	14	30	50	30	25	74	15	101	10	30	11	101
105	木津 Nabari.	30	11	32	45	37	50	91	61	107	18	37	4	107
106	名張 Nabari.	26	11	34	45	39	39	81	63	111	19	26	8	111
107	名ノ庄 Minaminosho.	—	—	—	—	—	—	—	—	—	....	39	3	....
108	南月瀬 Tsukinose.	—	—	—	—	—	—	—	—	—	—	23	....	....
109	上野 Ueno.	8?	9	37?	53	26	39	40	26	100	15	37	11	100
110	針ケ別所 Harigabessho.	19	13	44	51	46	70	86	19	72	....	—	—	....
111	松山 Matsuyama.	27	19	37	49	48	46	83	33	91	....	37	12	....
112	菅野 Kwanno.	22	16	34	61	57	52	105	6	186	17	34	13	186
113	神末 Kamisue.	—	—	—	—	—	—	—	—	—	—	—	4	—
114	太秦 Uzumasa.	20	10	35	54	53	30	64	53	81	20	39	17	81
115	龜岡 Kameoka.	20	9	31	49	65	37	55	25	102	26	39	17	102
116	園部 Sonobe.	23	9	25	46	55	50	47	20	112	35	28	11	112
117	周山 Shuzan.	20	12	24	26	45	21	55	18	70	28	20	17	70
118	京都 Kioto.	20	13	36	52	53	34	61	13	84	17	40	19	84
119	田中 Tanaka.	18	12	34	46	48	32	56	35	79	12	40	18	79
	大和川 Yamato-gawa.													
120	八尾 Yao.	19	15	20	55	25	35	71	....	79	18	43	15	79
121	柏原 Kashiwabara.	16	18	40	51	....	....	....	....	....	....	—	....	....
122	富田林 Tondabayashi.	19	15	32	38	23	41	40	15	51	....	30	9	....
123	王寺 Ōji.	16	17	31	47	37	49	66	36	85	16	47	13	85
124	郡山 Kōriyama.	—	—	—	—	—	—	—	....	....	....	46	13	....
125	奈良 Nara.	17	15	32	55	34	39	90	7	81	14	44	14	90
126	高山 Takayama.	—	—	—	—	—	—	—	—	—	13	52	16	—
127	高田 Takata.	—	—	—	—	—	—	—	—	—	17	....	....	....
128	御所 Gase.	18	17	32	....	....	43	80	9	104	19	36	5	104
129	木原 Yagi.	29	12	23	35	29	52	54	13	66	30	22	2	66
130	八田 Tawara.	16	13	32	46	40	40	95	....	100	14	55	4	100

第二表 明治卅年最多降水日量 粁

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第四區 內海ノ續 北岸ノ續						IV. INLAND SEA.—Continued. b. N. Coast.—Continued.							
	大和川ノ續 Yamato-gawa. (*Continuede*).													
131	三輪 Miwa.	21	14	30	52	52	39	69	23	....	18	37	9	....
132	丹波市 Tanbaichi.	—	—	—	—	—	—	—	—	—	14	39	11	—
133	初瀨 Hatsuse.	20	16	35	49	87	43	70	18	....	....	37	8	....
134	堺 Sakai.	23	19	18	52	22	41	61	17	....	18?	52	8	....
135	長承寺 Chōshōji.	24	16	26	45	32	44	72	....	....	13	46	15	....
136	岸和田 Kishiwada.	35	16	28	41	27	35	71	6	79	19	37	11	79
137	尾崎 Osaki.	....	....	....	....	29	45	127	....	95	....	....	....	....
138	谷川 Tanigawa.	41	15	42	43	32	46	99	10	93	18	63	8	99
	第五區 日本海						V. SEA OF JAPAN.							
1	三ツ島 Mitsushima.	33	27	25	50	91	56	76	66	141	31	35	29	141
2	佐須奈 Sasuna.	22	17	29	50	65	88	45	52	112	30	40	57	112
3	嚴原 Itsugahara.	38	15	61	62	70	42	101	46	156	86	27	78	156
4	神崎 Kamisaki.	22	18	64	32	58	25	147	36	170	75	47	34	170
5	武生水 Mushōzu.	12	14	63	25?	60	32	45	50	44	25	19	19	63
6	伊萬里 Imari.	42	33	60	47	68	13	95	75	68	20	26	0	95
7	唐津 Karatsu.	15	14	10	19	15	16	23	57	68	13	16	7	68
8	鳥帽子島 Yeboshishima.	10	9	31	16	26	27	77	33	74	34	20	16	77
9	前原 Mayebara.	26	13	36	21	55	20	94	54	98	11	13	16	98
10	福岡 Fukuoka.	22	13	29	20	63	19	69	48	85	9	11	18	85
11	二日市 Futsukaichi.	24	13	33	24	130	21	111	66	109	14	13	14	130
12	大川 Ōkawa.	22	11	28	13	60	14	87	59	62	10	14	23	87
13	東郷 Tōgō.	27	11	29	17	59	24	85	62	59	14	17	15	85
	遠賀川 Oshika-gawa.													
14	蘆屋 Ashiya.	15	10	30	19	65	26	110	93	51	21	14	12	110
15	直方 Naokata.	17	17	25	20?	79	23	112	50	72	21	15	14	112
16	直方 Naokata.	14	....	....	....	....	....	....	....	....	....	....	....	....
17	飯塚 Iizuka.	15	12	27	16	89	17	115	138	75	17	9	15	138
18	土居 Doi.	8	20	25	18	26	18	137	51	81	19	22	21	137
19	香春 Kaharu.	14	20	30	16	65	27	111	49	40	—	14	15	....
20	添田 Soeda.	19	18	23	20	81	31	177	45	93	15	11	11	177
21	小倉 Kokura.	20	17	29	18	70	18	135	67	69	20	18	14	135
22	白洲 Shirasu.	27	23	48	45	99	60	153	95	118	46	37	24	153
23	六連島 Mutsurenshima.	26	34	40	39	64	53	103	51	94	40	22	18	103
24	赤間關 Akamagaseki.	24	20	31	24	66	37	87	41	94	39	12	13	94
25	角島 Tsunoshima.	37	13	29	40	74	44	74	79	62	29	18	21	79
26	河原 Kawara.	28	17	26	24	82	78	61	73	53	23	19	....	....
27	見島 Mishima.	24	12	44	15	49	85	24	90	91	11	10	20	91
	松本川 Matsumoto-gawa.													
28	萩 Hagi.	27	9	18	16	43	91	48	35	38	7	13	13	91
29	須佐 Susa.	30	17	26	28	65	76	64	70	65	10	17	33	76
30	津和野 Tsuwano.	25	28	20	47	30	43	28	44	12	11	17	17	47
31	益田本郷 Masudahongō.	32	24	21	23	48	80	55	112	80	11	16	24	112
32	濱田 Hamada.	30	19	21	30	46	65	58	98	50	11	20	22	98
	鄉川 Gō-kawa.													
33	川本 Kawamoto.	31	30	31	19	19	26	29	31	20	14	19	15	31
34	濱原 Hamabara.	26	24	30	20	42	51	68	44	56	19	29	29	68
35	三次 Miyashi.	17	10	15	18	40	40	66	27	54	24	26	10	66
36	三良坂 Mirasaka.	37	8	25	25	37	54	43	38	72	30	28	32	72
37	西野 Nishino.	21	6	19	20	32	63	86	13	65	13	16	23	86
38	生田 Ikuda.	20	26	30	....	....	....	....	....	....	....	....	....	....
39	吉田 Yoshida.	29	21	15	21	54	80	79	35	61	19	70	12	80
40	壬生 Mibu.	47	13	35	23	30	70	97	70	87	15	12	5	97
41	大朝 Ōasa.	24	55	17	22	41	67	78	44	79	11	22	....	....
42	上布野 Kamifuno.	26	31	29	2	45	75	15	19	44	15	25	20	75
43	新市 Shinichi.	8	5	20	42	32	56	59	48	47	22	18	27	59
44	庄原 Shōhara.	12	4	18	16	37	61	68	11	45	30	18	8	68
45	西城 Saijō.	27	56	30	20	35	55	57	18	55	36	17	33	57
46	小島原 Koshimahara.	33	18	35	31	50	43	83	26	82	33	27	31	83
47	比和 Hiwa.	—	—	—	—	—	—	—	19	90	28	25	13	—

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名	Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續	V. SEA OF JAPAN.—Continued.													
48	大森	Ōmori.	....	....	....	....	....	57	51?	40	50	10	17	....	....
49	大田	Ōta.	—	—	—	—	....	—	—	25	48	10	28	22	—
50	鹽冶	Enya.	28	12	25	44	57	50	47	101	62	12	19	26	101
51	今市	Imaichi.	20	9	16	39	32	....	18	....	97	11	16	17	97
	斐伊川	Hino-gawa.													
52	大東	Daitō.	22	....	....	21	26	....	50?	34	65	15	23	23	....
53	掛合	Kakeya.	19	....	....	....	....	—	42	49	57	21	....	30	....
54	三成	Minari.	—	—	—	—	—	—	—	—	—	—	20	17	—
55	福富	Fukudomi.	26	14	25	52	44	48	38	157	99	26	25	18	157
56	廣瀨	Hirose.	23	16	17	31	100	55	31	31	79	16	18	21	100
57	八田	Hatta.	36	24	35	40	59	47	124?	21	20	24	27	27	124?
58	米子	Yonago.	22?	....	22	19	33	37	44	57	58	28	27	....	....
59	境	Sakai.	26	13	26	47	51	44	23	100	96	30	36	29	100
60	境	Sakai.	28	14	33	65	64	51	21	99	64	27	35	26	99
	日野川	Hino-gawa.													
61	二部	Nibu.	27	12	26	19	36	36	67	56	55	47	27	14	67
62	黑阪	Kurozaka.	16	23	22	18	30	25	85	19?	45	25	27	8	85
63	多里	Tari.	21	14	25	36	41	40	57	44	59	29	19	16	59
64	佐摩	Sama.	28	17	22	30	38	60	56	72	70	34	32	26	72
65	御來屋	Mikuriya.	35	7	28	22	31	41	41	135	71	34	26	26	135
66	八橋	Yabashi.	....	....	....	....	....	....	....	....	....	....	29	....	....
67	倉吉	Kurayoshi.	29	10	22	26	45	21	51	32	67	54	30	27	67
68	青谷	Aoya.	37	20	24	31	32	16	65	74	83	32?	16	48	83
69	吉岡	Yoshioka.	35	21	13	18	17	17	21	55	56	8	28	29	56
	千代川	Chiyo-gawa.													
70	智頭	Chizu.	47	20	27	37	41	46	73	41	83	62	32	30	83
71	鳥取	Tottori.	33	21	28	20	24	22	72	50	69	46	32	42	72
72	栃本	Tochimoto.	43	32	34	27	70	26	72	27	86	61	27	42	86
73	郡家	Kōge.	30	14	23	28	22	17	80	26	67	34	25	24	80
74	若櫻	Wakasa.	29	28	31	42	37	23	104	35	80	29	27	31	104
75	岩井	Iwai.	38	26	39	26	58	20	89	52	84	74	36	56	89
76	湯村	Yumura.	43	28	26	25	78	23	106	78	127	53	38	105	127
	圓山川	Inzan-gawa.													
77	豐岡	Toyo-oka.	20	26	24	17	33	23	50	36	128	46	34	24	128
78	出石	Izushi.	28	32	27	23	40	26	58	49	74	48	33	25	74
79	和田山	Wadayama.	23	32	22	36	63	54	89	20	95	50	13	39	95
80	久美濱	Kumihama.	28	37	31	28	56	25	41	91	101	46	33	57	101
81	綱野	Amino.	24	30	29	27	41	19	41	56	98	50	31	39	98
82	峯山	Mineyama.	28	34	25	28	57	22	49	36	92	48	33	51	92
83	宮津	Miyatsu.	28	25	27	31	57	25	51	56	89	49	35	29	89
	由良川	Yura-gawa.													
84	由良	Yura.	28	....	28	33	46	24	52	56	97	41	35	....	....
85	福知山	Fukuchiyàma.	26?	13	30	35	39	57	38?	43	78	56	32	15	78
86	綾部	Ayabe.	26	13	25	41	60	52	56	39	122	55	34	17	122
87	鷹栖	Takasu.	33	17	29	36	51	43	52	44	131	69	33	12	131
88	舞鶴	Maitsuru.	26	18	24	68	57	28	49	37	110	55	34	15	110
89	高濱	Takahama.	—	—	—	—	—	—	41	22	108	65	41	....	....
90	久阪	Hisasaka.	....	....	....	....	67	44	35	74	100	45	45	....	....
91	小濱	Ohama.	....	....	....	....	—	....	41	22	81	39	32	....	....
92	熊川	Kumakawa.	....	....	....	....	73	68	42	42	98	40	36	....	....
93	三方	Mikata.	—	—	—	—	—	—	40	21	90	21?	32	....	....
94	立石岬	Tateishinohana.	68	23	41	42	115	43	96	64	109	57	45	38	115
95	敦賀	Tsuruga.	—	—	—	—	—	—	—	—	—	35	34	....	....
	九頭龍川	Kuzuriu-gawa.													
96	三國	Mikuni.	—	—	—	—	—	—	233	16?	176?	9?	....	....	....
97	福井	Fukui.	46	23	29	33	51	22	160	43	92	46	32	43	160

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續 SEA OF JAPAN.—Continued.													
	九頭龍川ノ續 Kuzuru-gawa. (*Continued*).													
98	松岡 Matsuoka.	—	—	—	—	—	—	155	28?	91	23	32	....	....
99	大野 Ōno.	....	....	....	....	55	42	228	53	86	27	34	....	....
100	大野 Ōno.	—	—	—	—	—	—	226	....	....	....	....	....	....
101	貝皿 Kaizara.	—	—	—	—	—	—	—	56	100	34	49	....	....
102	大谷 Ōya.	—	—	—	—	—	—	—	35	128	36	47	....	....
103	東鄕 Tōgō.	—	—	—	—	—	—	146	38	78	28	33	....	....
104	稻荷前 Inarimai.	—	—	—	—	—	—	—	93	102	27	34	....	....
105	鯖江 Sabai.	—	—	—	—	—	—	138	47	98	34	33	....	....
106	武生 Takefu.	—	—	—	—	—	—	150	51	100	30	38	....	....
107	今庄 Imajō.	—	—	—	—	—	—	198	91	99	27	53	....	....
108	西田中 Nishitanaka.	—	—	—	—	—	—	144	56	74	43	38	....	....
109	大聖寺 Daishōji.	49	30	35	42	39	27	111	48	67	28	28	43	111
110	小松 Komatsu.	39	18	35	33	45	25	85	41	52	24	26	45	85
111	白峰 Shirane.	....	....	....	....	48	40	225	42	107	31	....	....	....
112	松任 Matsuto.	26	18	36	23	45	23	83	50	50	29	23	49	83
113	金澤 Kanazawa.	31	22	38	33	44	26	58	45	81	44	34	45	81
114	津幡 Tsubata.	22	17	28	31	31	13	38	44	52	20	27	39	52
115	羽咋 Hagui.	21	15	31	26	26	17	44	54	72	17	26	24	72
116	輪島 Wajima.	45	20	31	51	57	32	37	27	134	28	35	44	134
117	祿剛崎 Rokkōsaki.	37	30	27	37	43	21	60	59	65	22	31	34	65
118	野々江 Nonoe.	36	20	37	24	29	19	54	32	42	22	41	48	54
119	飯田 Iida.	32	11	37	22	32	16	53	32	....	21	41	33	....
120	七尾 Nanao.	25	28	38	58	48	12	38	39	51	15	25	24	58
121	氷見 Himi.	....	18	26	38	26	21	....	....	....	....	35?	....	....
	庄川 Sho-kawa.													
122	伏木 Fushiki.	32	24	27	34	27	52	46	27	66	32	29	33	66
123	高岡 Takaoka.	20?	....	....	....	....	14	55	35	45	18	28	35	....
124	金屋岩黒 Kanayaiwakuro.	....	....	....	....	31	19	92	46	68	23	....	....	....
125	井波 Inami.	28	20	35	35	34	16	81	47	70	28	35	33	81
126	今石動 Imaisuruo.	—	—	—	—	28	23?	84	29	96	21	27	49	—
	神通川 Jintsu-gawa.													
127	富山 Toyama.	69	37	27	46	20	12	66	48	78?	17?	17	48	78
128	古川 Furukawa.	—	—	—	—	—	—	—	—	—	6	35	15	—
129	高山 Takayama.	26	12	42	34	23	27	130	23	129	33	29	8	130
130	三室荒屋 Mimuroaraya.	....	....	....	....	20	13	72	67	118	54	....	....	....
131	船津 Funatsu.	....	....	....	....	25	21	102	39	120	31	....	....	....
132	船津 Funatsu.	—	—	—	—	—	—	101	40	139	36	36	10?	—
133	魚津 Uotsu.	32	18	33	48	37	38	78	54	85	20	21?	40	85
134	糸魚川 Itoigawa.	40	18	48	39	24	12	82	87	72	42	29	58	87
135	南小谷 Minamiotani.	—	—	—	—	—	—	76	42	....	....	28	....	....
	關川 Seki-kawa.													
136	高田 Takata.	....	....	....	25	18	15	64	142	71	50	43	....	....
137	關山 Sekiyama.	....	....	....	....	17	32	62	75	97	31	....	....	....
138	安塚 Yasuzuka.	....	....	....	30	32	22	88	72	81	49	33	....	....
	信濃川 Shinano-gawa.													
139	新潟 Niigata.	21	14	25	40	23	14	47	129	66	46	15	50	129
140	新潟 Niigata.	18	14	31	34	23	23	47	133	70	45	18	37	133
141	新潟 Niigata.	27	17	25	29	24	27	83	87	78	38	....	34	....
142	三條 Sanjō.	40	18	26	24	22	15	125	53	62	30	28	34	125
143	與板 Yoita.	26	16	16	6	8	3	29	117	75	44	32	....	....
144	長岡 Nagaoka.	....	....	....	31	14	30	63	81	65	30	40	....	....
145	小千谷 Ojiya	....	....	....	....	....	20	62	180	60	32	35	....	....
146	十日町 Tōkamachi.	....	....	....	27	21	20	127	111	78	29	22	....	....
147	豐鄕 Toyosato.	....	....	....	....	18	21	81	114	75	30	22	....	....
148	飯山 Iiyama.	....	....	....	26	13	25	59	48	44	25	22	....	....
149	中野 Nakano.	13	10	23	22	18	21	40	28	66	25	16	11	66
150	豐津 Toyotsu.	21	36	19	23	14	26	60	37	80	28	23	13	80
151	須坂 Susaka.	16	3	11	27	17	24	52	31	95	26	27	8	95
152	仁禮 Nirei.	—	8	13	27	21	16	62	28	97	....	30	10	—
153	篠井 Shinonoi.	18	6	10	30	17	30	80	25	65	27	24	4	80

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續 V. SEA OF JAPAN.—Continued.													
	信濃川ノ續 Shinano-gawa. (*Continued*).													
154	屋代 Yashiro.	19	11	6	31	17	18	71	22	96	....	23	4	96
155	上田 Ueda.	42	2	12	22	13	14	35	28	59	54	25	0	59
156	岩村田 Iwamurada.	11	4	9	16	15	23	28	38	....	....	....	....	....
157	臼田 Usuda.	16	4	9	20	13	49	29	20	67	15	40	4	67
158	西内 Nishiuchi.	18	19	10	47	19	17	51	39	55	22	27	6	55
159	巻 Maki.	43	24	39	30	30	15	29	121	75	38	26	49	121
160	村松 Muramatsu.	....	....	....	....	23	23	156	105	75	43	....	....	....
161	樣尾町 Tochiomachi.	....	....	....	....	23	26	141	119	63	32	....	....	....
162	孟地 Mochi.	....	....	....	....	32	64	175	196	95	....	....	....	....
163	六日町 Muikamachi.	34	36	22	26	20	28	135	173	80	26	33	51	173
164	湯澤 Yuzawa.	....	....	....	....	42	40	122	111	86	41	....	....	....
165	長野 Nagano.	17	11	8	34	18	30	67	19	56	27	21	8	67
166	南小川 Minamiogawa.	—	—	—	—	—	—	—	—	—	—	24	—	—
167	牧田中 Makitanaka.	21	10	13	27	16	31	87	29	93	27	29	?	93
168	大町 Ōmachi.	17	20	20	31	21	30	76	27	97	26	23	6	97
169	成相新田 Nariaishinden.	28	15	21	39	14	15	43	19	109	27	30	2	109
170	松本 Matsumoto.	39	12	....	....	13	19	16	9	....	8?	6	....	....
171	奈良井川 Naragawa.	29	63	46	59	30	26	102	31	101	23	16	3	102
172	島々 Shimashima.	....	....	....	....	21	30	97	48	131	27	....	....	....
173	姫崎 Himesaki.	26	39	36	34	31	25	81	186	94	42	26	23	186
	阿賀野川 Akano-gawa.													
174	新發田 Shibata.	22	11	10	16	22	23	67	92	153	31	24	62	153
175	津川 Tsugawa.	....	....	....	21	14	24	98	41	88	34	35	....	....
176	喜多方 Kitakata.	23	5	30	28	11	13	76	99	62	24	22	....	....
177	阪下 Bange.	17	19	24	17	13	10	94	131	49	24	21	21	131
178	高田 Takata.	15	12	25	23	14	17	118	133	61	29	21	21	138
179	若松 Wakamatsu.	14	9	45	21	20	17	88	121	64	17	29	11	121
180	福良 Fukura.	....	....	....	....	32	37	59	127	121	57	....	....	....
181	猪苗代 Inawashiro.	7	10	25	27	17	16	86	77	80	30	22	0	86
182	只見 Tadami.	....	....	....	....	16	28	151	123	74	40	....	....	....
183	田島 Tajima.	24	2	18	27	30	24	109	56	71	30	23	3	109
184	小國 Okuni.	....	....	....	....	24	22	64	78	....	....	....	....	....
185	村上 Murakami.	18	23	29	25	24	15	35	75	89	36	80	61?	89
186	加茂 Kamo.	....	....	....	37	40	78	48	94	75	37	32	33	....
	最上川 Mogami-gawa.													
187	酒田 Sakata.	23	30	19	28	45	109	85	80	63	44	26	30	109
188	酒田 Sakata.	17	21	21	42	27	25	78	85	54	24	28	29	85
189	新庄 Shinjō.	42	36	15	27	18	44	85	102	79	47	22	24	102
190	楯岡 Tateoka.	10	25	30	29	18	22	38	40	60	29	40	20	60
191	天童 Tendo.	16	11	5?	19	13	14	30	33	78	32?	31	12?	78
192	寒河江 Sagoe.	9	9	28	27	15	18	34	29	79	31	30	10	79
193	山形 Yamagata.	13	7	31	18	34	11	38	30	72	36	26	9	72
194	上ノ山 Kaminoyama.	12	12	26	21	13	19	30	29	77	30	23	11	77
195	宮 Miya.	11	12	12	24	23	28	35	53	82	60	48	25	82
196	赤湯 Akayu.	—	—	—	—	24	13	36	29	84	31	20	17	—
197	高畑 Takahata.	15	10	9	14	—	—	—	—	—	—	—	—	—
198	米澤 Yonezawa.	16	17	20	21	21	13	43	52	87	21?	23	10?	87
199	大鳥 Ōtori.	44	46	37	49	42	54	67	171	109	68	56	67	171
200	鶴岡 Tsurugaoka.	28	18	28	25	31	69	50	110	70	36	21	45	110
201	藤島 Fujishima.	28	15	21	25	33	63	111	88	67	41	25	44	111
	子吉川 Koyoshi-gawa.													
202	本荘 Honjō.	18	9	16	25	64	43	51	109	75	29	36	53	109
203	矢島 Yashima.	....	....	....	38	25	25	40	84	46	27	42	26	....
204	道川 Michikawa.	31	12	15	15	14	14	27	17	18	36	35	36	36
205	象潟 Hisakata.	22	19	17	22	28	24	25	31	28	30	28	33	33
	雄物川 Omono-gawa.													
206	土崎 Tsuchisaki.	22	....	....	33	50	32	56	77	49	33	30	21	....
207	秋田 Akita.	31	21	27	34	39	32	64	120	56	29	31	30	120
208	新波 Araha.	28	20	25	34	53	51	47	89	65	33	23	45	89

第二表 明治卅年最多降水日量 糎

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m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續													
	雄物川ノ續 Omono-gawa. (*Continued.*)													
209	大曲 Ōmagari.	25	13	19	30	50	30	29	61	44	72	15	4	72
210	横手 Yokote.	....	....	....	....	....	....	....	124	59	18	88	60	....
211	沼館 Numadate.	....	....	....	....	41	38	45	104	31	39	25	....	....
212	西馬音内 Nishimonai.	4	2	....	17	34	15	....	122	152	25	....	2	....
213	稻庭 Inaniwa.	24	24	8	20	28	32	35	191	99	43	22	30	191
214	川向 Kawamukai.	31	21	19	21	13	61	38	62	60	26	35	31	62
215	角館 Kakunotate.	22	18	23	39	89	59	40	81	35	30	28	40	89
216	田澤 Tazawa.	14	25	17	39	65	50	54	80	41	34	24	22	80
217	目長崎 Menagasaki.	22	17	28	45	63	38	61	126	51	34	36	20	126
218	笠岡 Kasaoka.	17	13	31	31	53	23	88	79	37	30	36	19	88
219	五城目 Gojōnome.	39	17	27	32	50	31	34	89	43	34	43	28	89
	米代川 Yoneshiro-gawa.													
220	能代 Noshiro.	22	4	8	23	42	11	46	55	33	23	21	36	55
221	鷹巣 Takanosu.	22	14	19	29	29	21	65	130	48	33	35	32	130
222	大館 Ōdote.	....	....	....	15	20	20	26	26	25	25	....	....	....
223	扇田 Ōgita.	21	15	16	16	27	9	85	70	86	24	69	30	36
224	毛馬内 Kemanai.	—	—	—	—	—	6	37	46	81	30	21	....	....
225	花輪 Hanawa.	9	20	20	18	55	24	43	67	67	26	27	21	67
	岩木川 Yuwaki-gawa.													
226	五所河原 Goshogawara.	33?	6	13?	12?	32	16	36	52	43	30	29	21	52
227	弘前 Hirosaki.	20	10	16	19	29	57	33	38	33	23	52	26	57
228	國吉 Kuniyoshi.	35	29	15	20	25	18	27	28	38	31	35	20	38
229	黒石 Kuroishi.	17	13	29	20	20	22	16	42	34	27	30	20	42
230	江良町 Eramachi.	27	22	9	12	17	26	20	65	12	22	?	12	65
231	鷗島 Kamomeshima.	24	27	20	22	22	34	12	72	21	22	15	20	72
232	乙部 Otobe.	—	—	—	35	19	?	?	?	53	?	?	20	?
233	釣掛 Tsurikake.	16	42	25	43	19	25	33	105	32	24	38	18	105
234	稻穂崎 Inahosaki.	8	38	24	28	22	40	46	155	21	35	20	23	155
235	太櫓 Futoro.	15	....	14	12	....	74	28	....	....	16	45	20	....
236	永豐 Nagatoyo.	8	8	23	12	....	....	13	30?	....	14	....	7	....
237	黒松内 Kuromatsunai.	—	—	—	—	22	36	33	51	36	76	42	19	—
238	辨慶崎 Benkeisaki.	8	9	15	32	56	37	26	93	15	33	30	51	93
239	寿都 Suttsu.	24	14	9	38	45	24	22	48	17	34	16	13	48
240	岩内 Iwanai.	4	4	8	7	2	1	0	1	0	0	0	4	8
241	神威内 Kamuinai.	?	?	?	8	10	6	11	7	5	5	7	?	?
242	神威岬 Kamoimisaki.	15	9	7	10	14	5	13	12	23	22	7	7	23
243	仁木 Niki.	?	?	?	?	11	11	4	4	18	11	8	?	?
244	日和山 Hiyorimiyama.	22	15	8	55	43	23	14	24	14	4	2	22	55
	石狩川 Ishikari-gawa.													
245	石狩 Ishikari.	8	14	5	59	48	14	23	34	27	19	12	39	59
246	札幌 Sapporo.	6	14	11	43	32	10	12	29	27	17	9	22	43
247	忠別 Chūbetsu.	13	8	15	17	13	19	16	23	30	18	12	14	30
248	千歳 Chitose.	6	8	4	16	28	20	28	42	36	25	12	7	42
249	増毛 Mashike.	8	11	18	47	19	34	24	23	29	53	29	26	53
250	留萌 Rurumotsupe.	12	15	....	3	5	....	....	....	....	....	....	....	....
251	鴛泊 Oshitomari.	35	50	25	24	30	15	38	29	172	28	8	6	172
	仁川 Jenchuan.	38	13	19	53	28	38	108	105	13	20	23	11	108
	釜山 Fusan.	89	9	36	15	42	45	81	48	33	30	9	44	89
	釜山 Fusan.	33	10	36	16	42	48	103	65	32	34	10	47	103
	元山津 Yuensan.	40	15	15	18	52	23	97	20	4	21	26	—	97
	浦潮港 Vladivastok.	2	16	4	?	12	11	20	44	22	32	8	0	44
	第六區 津輕海峽													
1	青森 Aomori.	24	8	16	20	20	22	43	48	37	20	21	34	48
2	脇ノ澤 Wakinozawa.	24	15	19	29	22	58	36	34	35	48	22	8	58
3	田名部 Tanabe.	32	14	23	28	34	41	16	34	27	40	28	9	41
4	尻矢崎 Shiriyasaki.	22	13	20	69	22	28	17	39	49	48	20	17	69
5	弁天島* Bentenshima.*	18	23	41	28	29	19	15	118	13	26	23	17	118
6	福島 Fukushima.	32	27	12	16	12	20	12	12	11	14	14	5	32

福山港 * Harbour of Fukuyama.

第二表 明治卅年最多降水日量 粍

TABLE II. GREATEST AMOUNT OF PRECIPITATION IN A DAY, 1897.

m. m.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第六區 津輕海峽ノ續						**VI. TSUGARU STRAIT.—Continued.**							
7	白神崎 Shirakamisaki.	12	13	13	27	10	22	19	150	20	28	15	9	150
8	蔦登支岬 Kattojimisaki.	16	29	8	77	45	19	14	61	31	59	67	23	77
9	七飯 Nanaii.	17	17	20	39	26	65	17	46	16	33	37	8	65
10	函館 Hakodate.	11	31	16	31	32	27	16	61	27	37	30	8	61
11	汐首岬 Shiokubisaki.	17	15	10	142	43	30	28	55	36	233	38	20	233
12	恵山岬 Yesanmisaki.	18	11	36	41	40	50	28	85	35	105	38	33	105
13	臼尻 Usushiri.	49	?	35	26	?	28	20	47	25	48	44	20	?
14	鹿部 Shikabe.	66	3	7	28	?	19	17	33	?	28	41	?	?
15	森 Mori.	25	15	—	17	21	26	19	13	18	39	?	?	?
16	大黒島† Daikokushima.†	14	5	4	15	25	23	16	63	22	21	15	12	63
17	白老 Shiraoi.	46	20	23	13	18	....	....	....	....	....	....	....	....
18	苫小牧 Tomokomai.	18	49	12	60	40	63	58	32	32	54	10	65	65
19	下方 Shimogehō.	11	49	24	65	41	73	34	39	40	30	17	18	73
20	浦河 Urakawa.	11	32	45	76	35	88	42	61	32	30	21	9	88
21	襟裳岬 Yerimomisaki.	11	5	15	29	15	127	19	48	30	43	21	3	127
	第七區 阿哥斯克海						**VII. OKHOTSK SEA.**							
1	宗谷岬 Sōyamisaki.	5	3	6	9	10	9	16	19	61	22	12	15	61
2	網走 Abashiri.	10	5	12	14	17	11	16	18	50	15	11	9	50
3	斜里 Shari.	11	20	36	15	12	9	42	12	64	42	9	15	64
	第八區 州南諸島						**VIII. SOUTHERN ISLANDS.**							
1	奉安 Kōshun.	3	1	29	4	15	205	150	102	49	60	21	4	205
2	臺南 Tainan.	8	3	35	20	33	73	38	268	23	19	10	1	268
3	澎湖島 Hōkotō.	3	5	23	38	21	23	72	111	—	22	6	0	111
4	臺中 Taichu.	10	21	52	63	79	77	66	115	86	18	9	5	115
5	臺北 Taihoku.	11	45	38	91	69	41	88	170	93	49	57	19	170
6	石垣島 Ishigakijima.	69	47	13	31	20	106	111	36	133	102	229	25	229
7	西里 Nishisato.	47	15	34	127	29	65	73	61	49	87	83	30	127
8	具志川 Gushicha.	13	13	32	32	25	32	19	....	32	12	19	18	....
9	喜武 Chan.	53	53	8	94	64	72	119	78	102	30	34	47	119
10	富里 Fuzato.	46	52	92	120	78	80	79	68	127	51	76	64	127
11	那覇 Naha.	60	28	37	62	99	100	86	77	109	38	51	30	109
12	先島 Sakibarusaki.	76	42	35	64	97	112	64	57	89	36	55	27	112
13	首里 Shuri.	35	24	5?	10?	96	46	91	40	74	62	69	44	96
14	喜名 China.	45	38	59	59	95	94	87	91	157	77	56	86	157
15	屋敷 Hishicha.	45	44	32	23	94	78	96	89	91	41	56	39	96
16	西原 Nishibara.	30	29	20	25	86	99	91	52	89	35	49	50	99
17	伊江島 Iijima.	—	—	—	—	—	96	141	117	155	47	108	30	—
18	津堅島 Tsukinjima.	—	38	50	66	98	115	153	14	118	92	81	71	—
19	東江 Agarie.	41	25	92	97	87	69	61	75	82	57	91	41	97
20	曾津高崎 Sōtsudakasaki.	—	—	50	32	40	61	55	20	45	47	69	8	—
21	大島 Ōshima.	39	60	58	118	40	69	16	23	85	61	120	69	120
22	久島 Yakujima.	31	43	89	25	36	27	49	45	75	68	44	21	82
23	西之表 Ni-hino-omote.	—	—	—	—	—	—	—	—	—	93	88	15	—

室蘭港 † Gulf of Muroran.

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第一區 西海						**I. WESTERN SEA.**							
1	大瀬崎 Ōsesaki.	17	13	14	8	9	5	10	11	14	3	6	5	115
2	福江 Fukue.	17	14	18?	14	10?	9	9	18	13	3	9	13	147
3	古志岐島 Koshikishima.	13	11	16	8	12	9	8	16	14	2	10	6	125
4	平戸 Hirato.	15	8	16	7	11	6	13	15?	15	5	10	10	131
5	佐世保 Saseho.	20	14	19	14	12	10	14	16	19	5	10	13	166
6	瀬戸 Seto.	16?	12	16?	10?	10?	8?	7	9?	12?	3?	8	11	122
7	長崎 Nagasaki.	21	16	20	16	14	12	14	18	20	5	12	10	178
8	伊王島 Iwōshima.	16	13	17	14	12	9	10	13	14	5	8	13	144
9	陸ノ尾島 Kugenōshima.	13	10	13	12	10	5	9	15	18	4	11	10	130
10	口ノ津 Kuchinotsu.	16	10	19	13	12	5	8	15	17	6	6	5	132
11	島原 Shimabara.	10	8?	18	13	9?	6	8	12?	12	5	9	9	119
12	諫早 Isohaya.	16	12	17	12?	11	5	11	14	16?	5	10	10	139
13	大村 Ōmura.	15	12	17	12?	12	5	9	16?	14?	3?	9	13	137
14	高津原 Takatsuhara.	17	13	16	10	12	5	13	15	17	6	7	10	141
15	武雄 Takeo.	10	5	19	10	9	7	14	13	12	4	9	6	118
16	小城 Ogi.	15	13	15	11	9	7	8	14	12	4	6	5	119
	筑後川 Chikugo-gawa.													
17	榎津 Enokitsu.	16	15	17	12	12	6	11	17	16	5	7	11	145
18	久留米 Kurume.	18	15	18	12	11	7	16	17	17	5	8	12	156
19	久留米 Kurume.	11	7	15	12	8	6	8	13	14	4	5	5	108
20	轟木 Todoroki.	13	13	17	10	8	7	13	18	15	4	3	4	125
21	善導寺 Jendoji.	18	11	19	12	11	7	9	15	15	5	6	9	137
22	甘木 Amaki.	19	16	20	13	12	8	14	15	16	5	10	17	165
23	吉井 Yoshii.	19	15	17	13	15	11	13	15	19	5	8	9	159
24	宮原 Miyabara.	24	17	18	13	13	8	15	14	19	5	3	4	153
25	福島 Fukushima.	16	12	21	13	11	7	11	13	16	5	7	13	145
26	佐賀 Saga.	20	15	19	13	10	6	12	17	17	2	10	10	151
27	古湯 Furuyu.	19	15	18	13	10	7	15	17	17	5	9	13	157
28	神崎 Kanzaki.	18	13	19	11	12	8	14	17	16	4	6	13	151
29	森 Mori.	19?	13	20	12	11	7	8	18	19	7	9	11	154
	矢部川 Yabe-gawa.													
30	柳河 Yanagawa.	17	12	19	12	12	8	10	15	18	5	8	9	145
31	黒木 Kuroki.	12	8	13	11	6	6	9	10	11?	3	3	5	97
32	三池 Miike.	16	8	18	11	12	6	12	15	13	5	5	6	127
	菊地川 Kikuchi-gawa.													
33	高瀬 Takase.	17	9	14	11	10	5?	7	14	14	5	5	4	115
34	山鹿 Yamaga.	15	8	16	12	13	7	11	15	16	4	6	6	129
35	隈府 Waifu.	15	7	16	10	10	7	6	11	14	4	5	4	109
	白川 Shira-kawa.													
36	春日 Kasuga.	20	11	19	13	12	7	12	13	15	3?	6	4	135
37	熊本 Kumamoto.	20	12	18	14	14	9	15	17	18	8	8	8	161
38	大津 Ōtsu.	—	—	—	—	—	—	—	—	—	—	6	3	—
39	吉田 Yoshida.	16	9?	19	14	12	9	14	14	15	6	8	4	140
40	宮地 Miyaji.	12	10	18	12	11	8	13?	14	13	5	7	3	126
41	濱町 Hamamachi.	21	12	18	14	12	8	9	14	14	3?	6	5	136
42	御船 Mifune.	18	10	20	13	12	6	15	17	14	7	7	8	147
43	木山 Kiyama.	—	—	—	—	—	—	—	—	—	—	7	4	—
44	原町 Harumachi.	—	—	—	—	—	—	—	—	—	—	10	7	—
45	宇土 Udo.	21	10	19	14	13	9	14	15	15	6	7	7	150
46	松橋 Matsuhashi.	19	12	18	14	12	8	13	15	16	5	7	8	147
47	町山口 Machiyamaguchi.	14	11	17	14	13	7	10	15	13	4	11	9	138
48	戸島 Toshima.	—	—	—	—	—	—	11	15	17	6	11	16	—
49	佐敷 Sashiki.	18	12?	18	14	14	5	11	16	15	6	8	4	141
	球磨川 Kuma-gawa.													
50	八代 Yatsushiro.	15	10	20	14	10	8	8	11	15?	5	8	5	129
51	人吉 Hitoyoshi.	17	13	19	17	13	9	15	17	20	11	13	7	171
52	多良木 Taraki.	—	—	—	—	—	—	—	—	—	6	6	7	—
	川内川 Sendai-gawa.													
53	東手 Higashite.	16	13	19	19	13	8	10	14	14	5	8	6	145
54	里 Sato.	15	11	18	17	13	9	7	15	15	5	5	0	130

第三表　明治卅年降水日數

TABLE III.　NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第一區　西海ノ續						**I. WESTERN SEA.—Continued.**							
	川内川ノ續 Sendai-gawa. (*Continued*)													
55	加久藤 Kakutō.	14	12	12?	14	11	7	10?	13	16	....	3	4	....
56	郡 Kōri.	18	13	20	—	—	—	—	—	—	—	—	—	—
57	武田 Takeda.	—	—	—	14	12	9	12	13	17	5	10	16	—
58	長崎鼻 Nagasakihana.	—	—	—	—	—	8	8	13	15	4	6	12	—
59	釣掛崎 Tsurikakesaki.	19	21	22	14	14	8	7	16	15	6	10	17	169
	第二區　南海						**II. SOUTHERN SEA.**							
1	久保田 Kubota.	18	12	20	20	16	12	13	13	14	7	9	7	161
2	鹿兒島 Kagoshima.	19	13	21	16	14	11	15	13	19	6	11	9	167
3	中名 Nakana.	12	6	18	14	12	9	10	8	15	5	8	2	119
4	佐多岬 Satamisaki.	12	13	22	13	12	12	12	8	21	6	14	8	153
5	西方 Nishikata.	13	9	21	15	10	11	12	5	16	5	5	1	123
6	鞍崎 Kurasaki.	15	11	20	12	13	13	10	9	15	7	8	2	135
7	飫肥 Obu.	15	9	20	11?	10	11	13	11	15	9	10	4	138
	大淀川 Oyodo-gawa.													
8	宮崎 Miyazaki.	17	9	23	14	14	13	14	11	21	9	10	4	159
9	高岡 Takaoka.	14	9	20	12	13	10	13	16	19	8	6	2	142
10	都城 Miyakonojō.	17	8	21	18	13	13	15	13	19	7	10	5	159
11	北俣 Kitamata.	11	9	19	11?	8?	10	13	6?	13	5	3	2	110
12	須木 Suki.	12	8	20	11?	10?	7	11	13	14	6	6	4	122
13	細野 Hosono.	10?	7	19?	17	16	7	14	11	16	6	6	3	132
14	大牟田 Ōmuda.	14	9	18	12	10	10	14	17	17	6	7	4	138
15	田野 Tano.	14	6	17	9?	11	9	13	9	18	7	6	1	120
	佐土原川 Sadowara-gawa.													
16	村所 Murasho.	14	9	20	15	11	11	14	15	17	6	7	3	142
17	鹿野田 Kanoda.	14	8	16?	10?	9	10	11	8	15	7	4	3	115
	高鍋川 Takanabe-gawa.													
18	高鍋 Takanabe.	15?	8	18	11?	10	10	13	9	20	10	7	3?	134
19	神門 Kado.	17	9	22	12?	13	14	16	....	....	....	....	....	....
20	田代 Tashiro.	6?	5	13?	10?	10	11	10	7	12	6	2	....	....
21	下福良 Shimofukura.	10	8	17	13	11	8	12	10	15	5	8	3	120
22	細島 Hososhima.	13	5	17?	11?	11	10	11	5	14	6	8	3	114
	五箇瀬川 Gokase-gawa.													
23	岡富 Okatomi.	14	6	18	13	14	10	10	12	16	6	6	1	126
24	七折 Nanaori.	14	10	19	12	12	12	15	14	19	6	8	2	143
25	三田井 Mitai.	17	11	20	13	14	14	15	15	21	8	14	7	169
26	三ヶ所 Sangasho.	17	11	18?	11?	12	10	9?	14	19	6	6	5	138
27	馬見原 Mamihara.	17	10	16	11?	13	7	16	15	17	7	5	5	139
28	下直見 Shimonaomi.	11	5	13	9	10	8	11	12	11	5	7	2	104
29	佐伯 Saheki.	6?	....	....	....	....	....	....	....	....	8	6?	1?	....
30	平城 Heijō.	—	—	—	—	—	—	—	—	20	8	17	12	—
31	八幡濱 Yawatahama.	14	15	18	13	13	8	6	10	17	6	11	9	140
32	宇和島 Uwajima.	18	12	18	13	13	7	10	11	19	7	12	12	152
33	清水 Shimizu.	12	7	18	8	13	10	8	6	20	2	10	2	116
	渡川 Watari-gawa.													
34	中村 Nakamura.	16	10	16	11	13	12	10	10	22	5	7	5	137
35	川崎 Kawasaki.	15	9	14	15	9	9	11	5	15	8	12	4	126
36	田野々 Tanono.	16	8	13	13	10	13	6	5	15	6	3	2	110
37	窪川 Kubokawa.	15	8	18	11	10	13	10	11	20	7	11	3	137
38	檮原 Isohara.	17	10	17	14	13	9	11	11	20	7	14	9	152
39	興野々 Okinono.	18	12	20	13	14	9	9	10	21	8	13	10	157
40	須崎 Susaki.	—	—	—	—	—	—	—	10	21	5	9	1	—
	仁淀川 Niyodo-gawa.													
41	伊野 Ino.	14	6	15	14	13	12	11	13	22	6	13	2	141
42	越知 Ochi.	11	6	15	....	....	....	7	11	21	6	4	0	....

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續 II. SOUTHERN SEA. Continued.													
	仁淀川ノ續 Niyodo-gawa. (*Continued.*)													
43	久主 Kusu.	15	11	15	9	13	10	11	13	18	8	7	8	128
44	久萬町 Kumamachi.	19	14	18	12	13	9	11	16	22	9	14	17	174
45	高知 Kōchi.	18	9	18	16	14	13	16	16	25	7	9	2	163
46	桑尾 Kuwao.	11	7	14	12	15	14	14	17	22	7	7	1	141
47	上野尻 Kaminojiri.	13	8	12	13	13	9	8	4	17	5	3	0	105
48	大栃 Ōdochi.	17	7	14	12	14	11	13	15	23	5	4	2	137
49	安藝 Aki.	—	—	—	—	—	—	—	13	21	6	6	0	—
50	田野 Tano.	9	5	17	13	11	8	5	8	16	18	3	0	113
51	津呂 Tsuro.	14	6	18	10	15	12	6	6	20	8	5	2	122
52	志險 Shishikui.	—	—	—	—	12	11	11	14	21	6	5	1	—
53	神野 Kamino.	—	—	—	—	13	10	9	8	22	5	5	0	—
54	日和佐 Hiwasa.	9	7	13	9	9	11	9	5	21	6	7	1	107
	那賀川 Naka-gawa.													
55	富岡 Tomioka.	14	11	13	11	13	14	11	10	20	7	8	4	136
56	和食 Wajiki.	13	8	14	14	15	12	11	12	17	6	8	6	136
57	小松島 Komatsujima.	14	9	14	13	13	11	10	5	19	6	4	1	119
	吉野川 Yoshino-gawa.													
58	德島 Tokushima.	14	11	16	13	14	14	13	10	23	7	4	3	142
59	東名 Tōnatō.	15	8	11	10	14	13	9	11	23	9	6	4	133
60	石井 Ishii.	8	5	10	6	4	6	4	6	19	7	5	4	84
61	川島 Kawashima.	14	13	14	12	14	9	7	12	23	8	5	4	135
62	市場 Ichiba.	7	4	11	7	7	9	6	6	15	6	5	1	84
63	脇町 Wakimachi.	14	9	10	8	11	7	8	8	18	8	5	3	109
64	池田 Ikeda.	7	8	10	9	7	9	8	4	19	6	7	7	101
65	本山 Motoyama.	14	9	17	14	15	12	13	13	21	8	9	6	151
66	川井 Kawai.	12	5	10	11	12	10	9	6	19	7	4	....	....
67	南濱 Minamihama.	11	9	15	12	11	11	7	1	18	7	5	4	111
68	小桑島 Kokuwashima.	13	11	15	12	14	12	15	8	21	8	10	7	146
	紀ノ川 Kino-kawa.													
69	和歌山 Wakayama.	16	14	15	13	11	10	12	4	24	6	9	10	144
70	清水 Shimizu.	13	7	12	11	11	10	9	4	21	8	5	4	115
71	野上 Nagami.	12	6	10	13	9	8	10	4	19	7	6	5	109
72	橋本 Hashimoto.	12	9	10	11	11	10	10	7	22	8	7	9	126
73	慶賀野 Keikano.	15	7	11	14	8	8	11	7	21	7	6	6	121
74	五條 Gojō.	18	12	16	13	13	11	13	12	20	9?	7	8	152
75	和田 Wada.	—	—	—	—	—	—	—	—	—	7	7	9	—
76	吉野山 Yoshinoyama.	12?	8	12	12	15	12	14	8	22	7	9?	12?	143
77	上市 Kamiichi.	16	12	15	15?	11	10?	14	6	19	7	6?	10	141
78	柏木 Kashiwaki.	15	12	14	12?	15	7?	15	11	21?	....	6?	....	....
79	鷲家口 Washigaguchi.	—	—	—	—	—	—	—	—	—	—	6?	6	—
80	神野市場 Ainoichiba.	15	12	12	14	13	10	11	7	22	8	10	9	143
81	高野山 Kōyasan.	15	13	13	13	14	10	14	7	23	9	11	9	151
82	東富貴 Higashifuki.	15	10	14	12	11	10	12	9	24	8	10	10	151
	有田川 Arita-gawa.													
83	吉原 Yoshiwara.	16	10	14	14	13	9	11	5	22	9	11	9	143
84	清水 Shimizu.	18	12	12	15	11	10	9	5	21	8	9	9	139
(81)	高野山 Kōyasan.	15	13	13	13	14	10	14	7	23	9	11	9	151
85	湯淺 Yuasa.	14	9	11	12	14	9	8	3	21	9	11	4	125
	日高川 Hitaka-gawa.													
86	御坊 Gobō.	15	11	14	11	14	12	11	3	19	7	9	8	134
87	高津尾 Takatsuo.	17	12	15	14	16	12	13	11	22	9	13	12	166
88	東 Higashi.	15	11	12	11	14	8	9	12	22	9	13	13	149
89	田邊 Tanabe.	14	8	13	14	13	10	10	9	20	6	8	4	129
90	栗栖川 Kurisukawa.	18	8	13	14	12	11	11	13	23	8	11	7	149
91	安居 Ago.	19	9	18	15	15	16	13	15	25	9	12	9	175
92	潮岬 Shiomisaki.	16	10	18	19	15	13	11	7	25	8	11	3	156

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續 II. SOUTHERN SEA.—Continued.													
93	櫟野崎 Kashinosaki.	16	8	16	16	14	11	10	8	23	8	7	4	141
94	樫下中之岬 Shimonaka.	16	7	15	13	11	14	11	9	23	7	7	3	136
95	日之岬 Hinomisaki.	17	9	16	13	13	11	11	5	25	6	11	8	145
	新宮川 Shingu-gawa.													
96	新宮 Shingu.	17	9	16	17	17	18	12	9	25	9	8	3	160
97	本宮 Hongu.	15	9	15	17	14	13	12	10	23	9	6	3	146
98	小森 Komori.	15	11	15?	16	14	13	14	11	20	8	10	9	156
99	川津 Kawazu.	14	8	15	14	16	11	9	10	21	8	11	12	149
100	南日裏 Minaminichiura.	20	18?	14	18	17	11?	14	14	23	7?	15	18	189
101	大峯山 Ōmineyama.	—	—	—	—	—	—	14	15	21	....	—	—	....
102	洞川 Dōgawa.	15?	14?	12?	16	15	....	—?	—	—	....	13	14?	....
103	玉置川 Tamakigawa.	19	8?	16	16	17	16	12	15	23	8	6	6	162
104	大沼 Ōnuma.	16	9	15	15	13	16	13	11	22	8	7	3	148
105	寺垣内 Teragakiuchi.	17	10	17	17	16	21	16	16	21	10	9	4	174
106	河合 Kawai.	18	11	16	18	19	16	15	13	22	10	13	6	177
107	木本 Kinomoto.	15	7	17	16	15	17	13	14	24	11	12	2	163
108	尾鷲 Owashi.	15	9	16	17	15	18	13	14	21	9	4	2	153
109	安乘崎 Anorisaki.	14	9	16	15	14	12	14	9	24	7	7	1	142
110	菅島 Sugashima.	11	9	13	16	14	12	13	6	21	7	7	1	130
111	鳥羽 Toba.	15	6	15	15	11	10	14	6	20	8?	6	1	127
112	山田 Yamada.	15	10	15	17	13	13?	15	10	22	11	10	3	154
	櫛田川 Kushida-gawa.													
113	西黒部 Nishikurobe.	16	9	15	19	13	13	15	7	23	9	8	5	152
114	相可 Oka.	14	7	13?	15	13	11	14	11	20	8?	8	3	137
115	松坂 Matsusaka.	13?	5	13	13	13	12	12	5	17	9	8	3	123
116	久居 Hisai.	12?	7	13	13	13	11	12	....	19	9	9	1?	....
117	津 Tsu.	14	10	14	17	15	13	15	12	23	6	7	5	151
118	古河 Furukawa.	16	10	15	15?	12	12	14	11	21?	9	8	4	147
119	白子 Shiroko.	14	7	13	17	13	11	15	12	21	8	6	4	141
120	亀山 Kameyama.	13?	5?	15	15	13	15	10?	4	16	9	8	7	130
121	四日市 Yokkaichi.	15	9	13	12?	12	14	15	13	18	7?	7	1	136
122	四日市 Yokkaichi.	14	9	12	17	14	13	16	12	22	7	8	1	145
	員辨川 Inabe-gawa.													
123	桑名 Kuwana.	10	4	11	10	12	....	....	....	....	....	....	....	....
124	桑楚原 Sohara.	16	11	13	13	13	13	14	14	19	8	13	5	512
	木曾川 Kiso-gawa.													
(123)	桑名 Kuwana.	10	4	11	10	12	....	....	....	....	....	....	....	....
125	前ヶ須 Maigasu.	16	6	13	14	13	12	14	15	21	8	8	4	144
126	津島 Tsushima.	16	6	15	15	13	13	16	15	21	8	11	10	159
127	笠松 Kasamatsu.	17	6	13	14	12	9	11	12	19	7	9	8	137
128	犬山 Inuyama.	15	8	14	14	14	15	17	17	18	8	10	13	163
129	太田 Ōta.	12	5	12	12	14	11	16	9	....	....	8	8	....
130	中川 Nukastugawa.	12	2	6	9	11	5	13	9	16	4	5	1	93
131	吾妻 Azuma.	14	5	10	14	11?	13	17	18	19	8	11	8?	148
132	長野 Nagano.	17	11	15	13	13	11?	18	18	20	8	7	13	161
133	駒ヶ根 Komagane.	—	—	—	—	—	—	19	....	....	8	7	2	—
134	福島 Fukushima.	15	5?	....	....	....	14	17	17	20	9	10	7	....
135	滝 Ōtaki.	12	5	13	13	14	11	17	13	21?	8	7	10	144
136	開田 Kaito.	13	6	9	10	12	11	14	16	19?	7	10	14	141
137	高須 Takasu.	13	3	13	10?	14	10	13?	15	18	7	7	4	127
138	高田 Takata.	13	6	12	14	14	10	16	14	19	7	11	20	156
139	大垣 Ōgaki.	15	2?	12	14	14	10	13	17	19	8	9	13	146
140	垂井 Tarui.	15	6	13	16	12	9	9	6	16	6	9	11	128
141	三輪 Miwa.	9	6	11	13	14	8	14	16	19	8	10	12	140
142	德山 Takuyama.	18	14	14	16	16	9	13	9	22	7	10	23	171
143	岐阜 Gifu.	15	8	13	14	14	10	18	18	20	8	11	15	164
144	上有知 Kozuchi.	10	6	10	8	10	8	13	14	18	8	10	11	126
145	八幡 Hachiman.	18	8	13	13	16	7	17	8	20	7	9	13	149
146	白鳥 Shiratori.	15	12	12	15	16	10	16	11	21	11	10	14	163
147	北方 Kitakata.	17	10	14	14	13	8	13	18	19	8	12	15	161
148	長嶺 Nagamine.	15	11	14	13	14	8	13	9	18	8	11	9	143
491	高富 Takatomi.	11	7	11	13	14	9	15	17	17	8	10	13	145

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區 南海ノ續 II. SOUTHERN SEA.—Continued.													
	木曾川ノ續 Kiso-gawa. (*Continued*)													
150	葛原 Kuzuhara.	17	11	14	15	15	11	16	16	20	9	13	15	172
151	御嶽 Mitake.	15	6	13	9	12	9	14	14	15	7	7	5	126
152	金山 Kanayama.	12	5	10	11	14	14	17	19	20	7	10	14	153
153	森 Mori.	17	8	13	14	20	16	21	21	22	10	15	16	193
154	萩原 Hagihara.	—	—	—	—	—	—	—	—	—	—	7	12	—
155	關ケ原 Sekigahara.	20	11	11	12	15	14	16	12	19	8	11	19	168
156	稻澤 Inasawa.	15	7	14	15	13	11	15	14	18	8	8	9	147
157	島 Shima.	15	6	14	14	14	10	18	12	19	8	13	9	152
	庄内川 Shonai-gawa.													
158	下小田井 Shimo-odai.	14	5	13	14	13	10	14	8	19	8	7	3	128
159	勝川 Kachikawa.	16	6	16	15	13	10	17	14	19	8	9	10	153
160	高山 Takayama.	16	7	12	10	13	9	14	9	17	7	8	8	130
161	寺野 Terano.	—	—	—	16	13	11	17	14	19	8	6	2	—
162	布袋野 Hoteno.	17	6	12	14	13	10	18	13	19	8	8	11	149
163	瀨戸 Seto.	15	7	14	14	13	12	17	10	18	8	9	8	145
164	名古屋 Nagoya.	16	5	14	17	13	10	16	14	18	8	8	5	144
165	熱田 Atsuta.	18	6	15	16	14	11	15	10	18	8	9	1	141
166	大野 Ōno.	17	5	13	14	12	12	15	9	21	8	7	1	134
167	小鈴谷 Kosuzuya.	16	8	14	15	14	13	17	11	20	8	7	3	146
168	豐濱 Toyohama.	17	8	14	15	13	15	15	5	20	9	9	3	143
169	半田 Handa.	17	7	13	14	13	13	16	8	17	9	6	2	135
170	知立 Chiriu.	14	5	14	14	13	11	17	7	20	8	5	2	130
	矢作川 Yasaku-gawa.													
171	西尾 Nishio.	17	7	15	15	13	13	16	8	20	9	7	2	142
172	岡崎 Okazaki.	19	5	13	15	13	14	18	8	22	8	6	1	142
173	擧母 Koromo.	18	6	14	15	14	11	16	12	18	8	8	11	151
174	上鄕 Kami.	14	8	10	15	12	8	14	14	20	6	7	8	136
175	龜穴 Kamcana.	17	6	14	15	14	13	17	8	22	8	4	7	145
176	足助 Asuke.	18	6	13	16	13	12	16	16	20	8	6	5	149
177	一色 Isshiki.	15	6	14	14	13	14	15	7	21	8	7	3	137
178	佐久島 Sakushima.	16	6	14	16	13	13	13	3	22	9	9	2	136
179	御袖 Goyu.	14	5	14	14	13	11	14	4	20	8	6	2	125
	豐川 Toyo-kawa.													
180	豐橋 Toyohashi.	15	7	14	15	13	14	13	5	22	8	5	1	132
181	富岡 Tomioka.	15	8	14	15	13	12	14	9	20	9	10	3	142
182	新城 Shinshiro.	14	6	15	15	14	12	15	15	21	9	9	5	150
183	田口 Taguchi.	17	7	15	14	16	13	16	20	24	8	11	8	169
184	清岳 Kiyo-oka.	19	5	15	16	16	12	17	11	24	8	8	10	161
185	堀切 Horikiri.	14	9	14	14	13	12	14	1	20	8	6	2	127
186	濱松 Hamamatsu.	13	9	14	17	15	10	15	6	21	7	7	2	136
	天龍川 Tenriu-gawa.													
187	掛塚 Kakezuka.	—	—	—	13	16	8	11	3	22	....	....	....	....
188	二俣 Futamata.	13	5	13	14	11	12	13	9	21	8	5	0	124
189	下田 Shimoda.	17	7	15	15	16	12	14	15	24	8	7	6	154
190	飯田 Iida.	....	5	....	....	....	....	....	13	21	8	13	9	....
191	伊那 Ina.	11?	5?	13	16	16	13	18	15	20	8	6	6	147
192	朝日 Asahi.	10?	....	6	11	....	....	14?	8	17	4?	7?	1	....
193	上諏訪 Kamisuwa.	11	6	9	10	16	11	17	11	21	6?	10	4	132
194	北山 Kitayama.	8	5	7	11	10	16	14	13	19	7?	8	0	118
195	御前崎 Omaisaki.	12	7	16	17	13	12	15	4	19	7	8	0	130
196	島田 Shimada.	9	5	13	14	10	8	13	10	20	6	4	0	112
	富士川 Fuji-kawa.													
197	岩淵 Iwabuchi.	9	4	8	8	7?	7?	11	9	18	8	7	2	98
198	横根中區 Yokonechūku.	7	3	12	11	11	10	8	6	17	6	6	0	97
199	印澤 Inzawa.	....	....	....	13	12	10	19	....	....	....	....	....	....
200	鰍澤 Kajikazawa.	7		10	11	9	....	....	....	....	....	....	....	....

第三表　明治卅年降水日數

TABLE III　NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第二區　南海ノ續													
	富士川ノ續 Fuji-kawa. (*Continued*)													
201	住吉 Sumiyoshi.	12	4	15	13	15	18	....	12	19	....	5	....	....
202	鵜飼 Ugai.	....	....	....	....	....	....	....	9	....	....	....	....	....
203	駒飼 Komagai.	....	....	9	....	....	....	....	13	12?	7	5	....	....
204	小原西分 Koharanishibun.	13	7	13	11	11	16	16	11	19	8	6	0	131
205	甲府 Kofu.	10	5	13	17	11	16	19	14	20	6	6	0	137
206	龍王 Riuō.	12	4	12	13	11	14	15	8	11	7	5	0	112
207	御嶽 Ontake.	....	3	11	12	11	15	18	10	16	6	5	....	....
208	韮崎 Nirasaki.	10	5	12	13	11	14	17	9	18	8	5	0	122
209	若神子 Wakamiko.	11	....	14	11	9	10	....	5?	18	8	5	....	....
210	白須 Shirasu.	10	....	9	13	11	14	17	10	17	....	3	0	....
211	湯島 Yushima.	12	6	9	10	9	....	9	6	18	....	3	0	....
212	西湖 Nishinoumi.	10	....	20	15	15	20	18	16	21	9	8	....	....
213	古關 Koseki.	5	....	....	....	....	7	9	3	....	....	....	....	....
214	富見 Fujimi.	11?	7	13	14	14	15	16	14	20	9	10	7	150
215	大宮 Ōmiya.	15	5	13	....	....	....	....	....	....	....	....	....	....
216	長濱 Nagahama.	8	....	20	16	15	19	18	16	20	7	6	....	....
217	谷村 Yamura.	13	5.	17	15	15	11	18	15	22	8	7	0	146
218	猿橋 Saruhashi.	....	3	6	....	....	....	....	....	....	....	....	....	....
	狩野川 Kano-gawa.													
219	沼津 Numatsu.	14	9	14	17	18	17	18	14	23	9	9	5	167
220	本立野 Hontachino.	11	7?	14	14	12	....	....	....	....	....	....	....	....
221	長津呂 Nagatsuro.	15	11	12	19	15	13	17	9	23	9	8	7	158
222	石室崎 Iwosaki.	12	9	15	15	13	9	12	6	16	8	8	2	125
223	神子元島 Mikomotoshima.	6	5	14	13	12	12	12	8	21	10	9	10	132
224	熱海 Atami.	15	10	15?	18	13	19	21	13	22	9	10	2	167
225	城ヶ島 Jōgashima.	12	8	16	16	18	16	17	6	18	9	10	1	147
226	劒崎 Tsuruzisaki.	8	6	14	17	13	13	13	5	17	7	7	0	120
227	觀音崎 Kanonsaki.	12	5	19	19	15	13	15	8	16	8	9	2	141
228	橫須賀 Yokosuka.	11	9	14	16	13	16	18	11	19	9	8	2	146
229	橫濱 Yokohama.	13	5	14	19	13	15	19	10	18	8	8	1	143
230	橫濱 Yokohama.	13	9	14	17	14	15	18	12	17	8	8	0	145
	多摩川 Tama-gawa.													
231	羽田 Haneda.	13	3	14	16	13	16	16	9	22	8	7	0	137
232	大師河原 Daishigawara.	14	4	14	17	14	17	16	8	16	6	6	0	132
233	八王寺 Hachiōji.	8	3	13	13	12	15	16	9	18	7	6	0	120
234	千ヶ瀨 Chigase.	6	4	10	13	11	17	15	18	18	6	6	0	124
235	丹波山 Tanbayama.	—	—	—	—	—	18	16	....	....	....	....	....	....
236	品川 Shinagawa.	8	5	14	17	15	15	12	12	19	6	7	0	130
	荒川 Ara-kawa.													
237	東京 Tōkiō.	10	6	17	17	15	15	17	14	22	8	8	2	151
238	浦和 Urawa.	7	2	9	13	9	12	11	7	16	9	5	0	100
239	熊谷 Kumagaya.	7	3	....	....	....	....	....	....	....	....	....	....	....
240	熊谷 Kumagaya.	7	5	14	14	11	19	16	16	17	6	6	0	131
241	大宮鄉 Ōmiyagō.	8	2	11	10	8	18	24	15	19	9	7	0	131
242	飯能 Hanno.	7	2	12	12	12	19	16	16	18	8	8	0	130
243	眞名 Mera.	—	—	—	—	—	15	17	12	17	10	12	7	—
244	野島崎 Noshimasaki.	14	10	17	22	18	16	17	8	17	10	11	3	163
245	犬吠崎 Inuboyesaki.	14	15	19	18	13	16	13	9	15	8	11	4	155
	利根川 Tone-gawa.													
246	銚子 Chōshi.	13	14	19	18	15	19	16	13	15	10	10	6	168
247	關宿 Sekiyado.	10	5	11	11	10	10	13	12	16	11	7	0	116
248	前橋 Mayebashi.	8	3	10	15	11	21	20	19	20	10	6	0	143
249	澁川 Shibukawa	7	1	10	12	11	18	18	17	17	11	6	0	128
250	沼田 Numada.	8	5	14	14	12	18	16	19	22	8	11	6	153
251	小日向 Kobinata.	17	16	20	18	13	17	21	21	23	16	15	17	214
252	下館 Shimodate.	10	5	12	13	11	15	17	13	17	8	8	0	129
253	眞岡 Maoka.	3	2	8	11	6	12	12	8	16	6	6	0	90
254	宇都宮 Utsunomiya.	8	5	13	16	16	18	23	20	20	10	7	1	157

第三表　明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第二區　南海ノ續													
	利根川ノ續 Tone-gawa. (*Continued*)													
255	日光 Nikkō.	—	—	—	—	—	—	22	18	20	10	9	1	—
256	鹿沼 Kanuma.	8	4	15	16	12	18	18	16	18	11	6	0	142
257	栃木 Tochigi.	7	5	11	14	12	13	19	15	21	8	7	0	132
258	佐野 Sano.	5	3	4	7	8	12	21	15	20	7	6	1	109
259	館林 Tatebayashi.	8	3	14	13	15	14	19	12	20	8	6	1	133
260	足利 Ashikaga.	2	5	3	11	5	9	8	7	14	8	4	0	71
261	太田 Ōta.	8	2	10	13	11	14	14	12	16	8	5	0	113
262	桐生 Kiriu.	8	3	9	15	13	17	20	20	22	8	5	0	140
263	花輪 Hanawa.	8	5	10	14	14	17	18	18	19	9	8	0	140
264	伊勢崎 Isezaki.	8	3	11	11	10	18	20	15	20	7	5	0	128
265	万場 Manba.	8	2	12	13	14	19	24	20	20	9	8	2	151
266	藤岡 Fujioka.	7	2	6	12?	13	19	21?	16	20	8	9	0	133
267	富岡 Tomioka.	5?	2	7?	11	11	16	16	11?	16	5?	5	1	106
268	下仁田 Shimonita.	9	3	12	15	16	21	25	22	19	9	8	1	160
269	高崎 Takasaki.	4?	2	10	13	12	19	21	16	19	6?	5	0	127
270	安中 Annaka.	8	2	8	11	11	15?	18	12	19	10	8	0	122
271	三ノ倉 Sannokura.	6	3	9	13	15	22	25	21	21	12	7	0	154
272	須賀ノ川 Sukagawa.	10	8	13	12	12	17	17	11	....	....	....	....	....
273	中ノ條 Nakanojō.	8	2	11	13	10	18	16	10	18	10	5	0	121
274	草津 Kusatsu.	9	9	13?	17	....	....	16	23	24	12	12	19	....
	第三區　東海													
	那賀川 Naka-gawa.													
1	水戸 Mito.	9	8	15	15	13	15	19	16	20	8	10	3	151
2	矢板 Yaita.	7	5	9	13	13	17	18	18	18	12	7	0	137
3	太田原 Ōtawara.	8	3	10	13	13	17	20	16	18	10	7	0	135
4	大子 Daigo.	6	3	11	11	10	16	16	13	14?	10	7	0	117
5	棚倉 Tanagura.	9	5	9	10	8	6	13	12	18	6	....	....	....
6	平 Taira.	2	1	4	6	8	9	16	6	8	3	8	0	71
7	富岡 Tomioka.	6	2	4	11	6	10	9	10	11	6	10	0	85
8	中村 Nakamura.	5	2	4	9?	3?	4	9?	5?	12?	7?	6	0	66
	阿武隈川 A'ukuma-gawa.													
9	角田 Kakuta.	8	5	8	12	9	13	19	16	21	7	9	6	133
10	桑折 Kōri.	8	3	7	13	6	12	18	15	18	8	12	12	132
11	福島 Fukushima.	10	8	10	15	13	12	18	20	20	11	14	19	170
12	二本松 Nihonmatsu.	8	2	5	12	6	13	16	16	16	5	6	1	106
13	三春 Miharu.	7	4	7	11	10	9	10	9	15	3	4	4	93
14	郡山 Kōriyama.	3	0	2	....	....	15	26	17	20	11	13	13	....
15	須賀川 Sukagawa.	7	4	9	13	11	13	19	13	18	8	9	1	125
16	石川 Ishikawa.	5	4	3	6	1?	9	13	4	10	2	2	2	61
17	白河 Shirakawa.	7	6	9	12	10	17	19	15	18	8	5	2	128
18	大河原 Ōkawara.	13	5	10	14	9	15	17	14	21	8	9	8	143
	名取川 Natori-gawa.													
19	長町 Nagamachi.	5?	5	9	11	9?	10	23	17	24?	8	10	7	138
20	仙臺 Sendai.	5?	5?	13?	13?	13	13	23?	16?	21?	8?	10	10	150
21	仙臺 Sendai.	11	7	11	15	12	16	23	22	23	11	12	13	176
22	南ノ目 Minaminome.	8?	6?	9	11?	11?	11?	22?	20?	20?	9	12	10	149
	鳴瀬川 Naruse-gawa.													
23	古川 Furukawa.	10	6	8	10	6	3?	9	8	15	5	2?	10	92
24	吉岡 Yoshioka.	8	8	11	11	7	8	16	19	21	11	7	7	134
25	**北上川** Kitakami-gawa.													
26	石巻 Ishinomaki.	7	8	10	14	15	11	19	20	20	13	11	6	154
27	飯野川 Ienogawa.	2?	3?	3?	....	5?	3?	6?	7	13?	18	....	....	....
28	一ノ關 Ichinoseki.	9	3	9	9	5	4	12	12	14	5	10	5	97
29	水澤 Mizusawa.	10	7	9	9	7	7	12	15	17	13	10	14	130
30	花巻 Hanamaki.	11	10	9	13	8	9	12	13	17	11	8	16	137
31	盛岡 Morioka.	13	8	8	13	10	13	17	12	18	14	8	10	144
32	湯谷 Wakuya.	10	7	9	15	11	10?	18	16?	21?	10	7	9	143
(23)	古川 Furukawa.	10	6	8	10	6	3?	9	8	15	5	2?	10	92

第三表　明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第三區　東海ノ續						**III. EASTERN SEA.—Continued.**							
	北上川ノ續 Kitakami-gawa. (*Continued*).													
32	佐沼 Sanuma.	2?	....	2?	8?	8	6	14	12?	19?	3?	5	3	....
33	築館 Tsukidate.	....	2?	3	12?	17	13	19	24?	19?	....	9	19	....
34	遠野 Tōno.	13	7	10	15	9	6	12	13	14	8	7	9	123
35	金花山 Kinkwasan.	5	6	11	15	12	9	19	16	17	10	4	2	126
36	本吉 Motoyoshi.	7?	7?	6?	....	3?	3?	4?	4?	11?	4?	4	....	....
37	盛 Sakari.	9	6	6	13	9	9	10	16	17	8	6	2	111
38	宮古 Miyako.	7	8	10	15	13	16	22	15	20	13	9	5	153
39	久慈 Kuji.	7	6	6	12	7	13	21	17	19	13	10	6	137
	馬淵川 Mabuchi-gawa.													
40	三戸 Sannohe.	16	16	10	15	11	11	18	15	16	16	15	16	175
41	福岡 Fukuoka.	17	13	13	14	12	7	16	7	13	14	12	20	158
42	七戸 Shichinohe.	10?	6?	7?	7?	10?	9	11?	12?	13?	12?	9?	12?	118
43	下帶廣 Shimo-obihiro.	15	9	7	13	17	20	21	14	18	15	7	2	158
44	白糠 Shironuka.	3	3	3	2	6	4	15	....	....	....	....	....	....
45	舌辛 Shitakara.	7?	3?	6?	7?	....	11	12	9	15	8	....	....	....
	釧路川 Kushiro-gawa.													
46	釧路崎 Kushirozaki.	9	6	8	7	12	13	17	5	12	11	6	2	108
47	標茶 Shibecha.	15	13	10	9	17	15	17	7	16	11	8	5	143
48	大黒島* Daikokushima.*	7	7	6	7	14	11	14	9	13	10	7	2	107
49	落石崎 Otchishisaki.	8	10	11	9	15	15	14	7	10	11	7	2	119
50	納沙布崎 Noshiafsaki.	11	7	7	6	13	12	12	8	13	13	5	3	110
51	辨天島 Bentenshima.	12	11	9	7	14	12	11	10	13	12	9	3	123
52	根室 Nemuro.	12	13	13	9	15	20	16	12	16	14	9	2	151
53	別海 Bekkai.	....	....	....	....	....	....	....	....	....	....	....	....	....
54	計羅武威岬 Keramuimisaki.	13	9	6	7	13	15	13	8	13	13	11	4	125
55	泊 Tomari.	5	2	6	3	8	7	12	1?	5	4	2	1?	56
56	蘂取 Shibetoro.	23	17	15	11	15	11	12	11	10	20	19	27	191
	第四區　乙　內海南岸						**IV. INLAND SEA. a *S. Coast.***							
1	部崎 Hesaki.	19	15	18	12	11	7	10	10	14	4	9	6	135
2	行事 Gioji.	16	12	13	8	9	8	11	14	14	5	8	12	130
3	椎田 Shiita.	12	13	18	13	8	6	8	12	18	4	7	5	124
4	戸原 Tohara.	9	8	13	5	5	5	5	4?	10?	2?	2?	2?	70?
5	中津 Nakatsu.	11?	7?	10?	7?	9?	3?	6	8?	15?	5	5?	4	90?
6	四日市 Yokkaichi.	16	12?	16	12	10?	6	5?	12?	17?	6	6?	7	125?
7	龍王 Rinō.	18	12	19	13	9	8	10	13	19	6	9	6	142
8	玉津 Tamatsu.	15?	12?	15	8?	10?	8	8	8?	14	7	7	9	121
9	鶴川 Tsurukawa.	12?	11?	14?	10	14	5?	8?	8?	13?	5	6?	7?	113?
10	日出 Hide.	9?	8?	14?	8?	7?	5	4?	4?	9?	4?	4?	3	79?
	大分川 Oita-gawa.													
11	大分 Oida.	14	10	18	11	13	12	11	13	19	7	8	5	141
12	高岡 Takaoka.	10	7	13	7	9	5	9	8	16	4	4	....	....
	大野川 Ōno-gawa.													
13	市場 Ichiba.	13?	7?	19?	8	12?	11	12	9?	16?	6	9	5	127
14	竹田 Takeda.	6?	6?	14?	6	8?	8	8	9	15	6	5	7	98
15	臼杵 Usuki.	14	6?	17?	11	10?	10	12?	7	16	3?	6	2	114
	肱川 Hiji-kawa.													
16	大洲 Ōzu.	18	13	16	13	12	8	5	7	18	7	9	8	134
17	卯之町 Unomachi.	18	15	19	13	15	8	9	10	19	7	15	12	160
18	郡中 Gunchu.	16	12	17	12	14	7	8	8	17	6	10	9	136
19	松山 Matsuyama.	17	13	18	12	13	8	9	7	17	6	10	9	139
20	三津 Mitsu.	16	11	17	12	13	7	8	7	15	6	9	7	128
21	釣島 Tsurishima.	14	11	15	14	11	8	10	5	15	7	7	3	120
22	大下島 Ōgeshima.	13	6	15	13	9	6	8	5	16	7	6	3	107
23	波止濱 Hashihama.	14	9	15	12	10	7	7	7	17	8	9	5	120
24	今治 Imabaru.	12	10	15	13	12	7	9	7	19	8	9	7	128

* Gulf of Akkeshi.

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sep.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 甲 内海ノ續 南岸ノ續	**IV. INLAND SEA.—Continued. a**								*S. Coast.—Continued.*				
25	西條 Saijō.	15	13	16	13	12	8	10	14	19	8	12	9	149
26	多喜濱 Takihama.	16	10	17	....	....	....	....	13	21	8	7	4	....
27	三島 Mishima.	—	—	—	12	13	11	13	10	19	10	12	11	—
28	川ノ江 Kawanoe.	17	11	18	—	—	—	—	—	—	—	—	—	—
29	大野原 Ōnohara.	....	....	....	....	....	....	....	3	21	....	....	....	....
	財田川 Takarada-gawa.													
30	觀音寺 Kwanonji.	....	7	....	....	8?	8	....	4	....	7	....	5	....
31	財田上 Takaradakami.	18	10	17	12	11	9	13	11	20	12	10	11	154
32	七個 Shichika.	13	13	16	12	10	12	8	5	17	8	6	10	130
33	濱浦 Ōhamaura.	13	8?	....	....	....	....	....	....	....	....	....	....	....
34	多度津 Tadotsu.	17	11	18	12	14	10	11	8	20	10	9	7	147
35	稻木 Inaki.	—	—	—	—	—	12	9	10	20	7	7	8	—
36	岡田平下 Okadashita.	12	10	15	12	9	11	9	9	20	9	9	11	136
37	琴平 Kotohira.	15	10	15	11	11	10	9	6	18?	8	9	7	129
38	宇多津 Udatsu.	15	9	17	15	12	13	13	8	18	7	8	7	142
39	坂出 Sakaide.	10?	6?	13	5?	12	11	....	....	....	....	....	....	....
40	坂出 Sakaide.	....	....	18	12	11	....	....	....	....	....	....	....	....
41	新名 Shinmei.	12	8	16?	11?	9	10	9	11	20	7	8	7	128
42	扮所西 Sogishonishi.	16	11	16	12	13	10	12	11	21	10	12	9	153
43	安原下 Yasuharashita.	19	11	16	13?	10	11	12	12	19	9	10	9	111
44	高松 Takamatsu.	13	9	17	12	10?	9	11	7	22	7	6	6	129
45	長尾西 Nagaonishi.	16	10	17	11	10	11	8	5	18	5	7	6	124
46	十鋪 Tomosho.	15	7	14	14	11	9	10	4	20	4	8	3	119
47	庄島 Nabeshima.	15	8	15	13	9	11	9	6	17	7	9	6	125
48	男木島 Ogishima.	12	9	13	12	9	10	10	3	20	7	7	5	117
49	松原 Matsubara.	17	12	16	12?	11	12	10	4	22	8	8	8	140
50	江崎 Yesaki.	12	7	15	13	11	10	13	5	19	6	7	6	124
51	女木島 Tomogashima.	12	10	13	13	8	9	11	2	22	5	6	2	113
	第四區 乙 内海ノ續 北岸	**IV. INLAND SEA.—Continued. b**								*N. Coast.*				
1	壇浦 Dannoura.	15	14	16	13	13	7	14	13	16	4	9	10	144
	木屋川 Kiya-gawa.													
2	上保木 Kamihoki.	20	19	20	12	10	9	12	12	15	5	13	18	165
	厚東川 Kotō-gawa.													
3	太田 Ōta.	21	20	20	11	12	12	14	15	14	4	12	9	164
4	嘉萬上鄉 Kamakamigō.	24	20	23	12	12	11	15	10	19	7	16	18	187
	槻野川 Fushino-kawa.													
5	山口 Yamaguchi.	19	17	17	....	14	11	12	11	16	6	11	....	....
6	三田尻 Mitajiri.	17	11	17	10	13	6	12	11	14	6	11	12	140
7	室積 Murotsumi.	15	13	18	11	13	6	10	8	14	7	7	11	133
	錦川 Nishiki-gawa.													
8	岩國 Iwakuni.	14	8	13	7	11	4	8	10	12?	5?	11	1?	104
9	鹿野上 Kanokami.	19	14	17	11	13	7	11	12	13	6	8	12	143
10	大竹 Ōtake.	13	9	14	9	13	8	9	10	15	6	6	1?	113
11	津田 Tsuda.	14	12	19	11	12	7	14	14	14	7	9	15	148
12	廿日市 Hatsukaichi.	8	6	11	8	7	7	7	5	9	4	4	1	77
	太田川 Ota-gawa.													
13	廣島 Hiroshima.	16	11	18	14	15	10	7	16	20	6	9	5	141
14	可部 Kabe.	14	10	16	12	11	5	5	8	11	5	5	3	105
15	加計 Kake.	19	13	17	15	14	10	11	15	17	6	11	16	164
16	井原 Ihara.	11	7	11	7	9	8	8	7	13	3	6	16	106
17	戸河内 Togauchi.	9	7	10	5	11	4	7	10	13	3	5	11	95
18	東八幡 Higashiyawata.	14	13	5	....	....	....	....	....	....	....	....	....	....
19	政所 Seisho.	—	14	12	9	11	9	7	4	12	5	8	22	—
20	吉和 Yoshiwa.	15?	2	18	12	13	9	11	14	14	6	7	5	126
21	上瀨野 Kamiseno.	—	—	—	—	11	7	9	8	17	8	7	3	—
22	吉浦 Yoshiura.	9	7	16	10	12	7	7	7	13	4	4	....	....
23	呉 Kure.	15	10	15	14	11	8	10	6	17	7	7	3	123

第三表　明治卅年降水日數

TABLE III.　NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第四區 乙 内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. b N. Coast.—Continued.												
24	南方 Minamikata.	10	8	16	10	8	9	8	6	14	5	8	3	105
25	西條 Saijō.	14	13	20	13	12	9	11	6	18	7	10	11	144
26	竹原 Takehara.	15	13	17	13	12	9	12	5	16	6	8	2	128
27	大久野島 Ōkunoshima.	14	6	14	11	9	9	9	5	18	6	7	1	109
28	忠海 Tadanomi.	11	7	16	10	11	10	6	4	16	6	5	2	104
29	戸野 Tono.	12	9	16	10	7	8	7	9	17	6	6	7	114
30	乃美 Nomi.	14	12	12	4	11	6	6	5	9	....	....	....	....
31	尾道 Onomichi.	11	5	18	8	8	8	5	7	16	6	7	5	104
32	松永 Matsunaga.	9	9	15	12	15	9	8	6	17	6	7	4	117
33	百貫島 Hiakkanshima.	15	7	16	14	12	9	9	6	18	6	6	6	124
34	鞆 Tomo.	13	10	14	10	8	9	9	5	19	6	6	3	112
	蘆田川 Ashida-gawa.													
35	福山 Fukuyama.	12	8	14	8	10	8	7	6	17	7	8	3	108
36	府中市 Fuchuichi.	11	6	17	12	10	9	9	5	15	6	4	1	105
37	甲山 Kōzan.	8	4	15	10?	8	5	7	....	16	7	5	3	....
38	市村 Ichimura.	9	7	10	4	10	6	9	5	15	5	6	2	88
39	木江 Yegi.	8	7	10	11	7	6	9	7	13	7	7	0.	92
40	東中條 Higashinakajō.	9	5	15	11	13	9	10	11	19	7	6	2	117
41	笠岡 Kasaoka.	11	8	16	11	7?	9	6	3	17?	6?	3	1	98?
42	玉島 Tamashima.	9	7?	13	8	10	7	9	6	15	6	5	2	97
	高梁川 Takahashi-gawa.													
43	倉敷 Kurashiki.	10	6	13	10	10	8	10	3	15	6	5	3	99
44	岡田 Okada.	11	6	14	10	10	8	9	5	15	4	6	2	100
45	高梁 Takahashi.	13	7	16	13	15	9	11	15	19	7	8	7	140
46	新見 Niimi.	11	10	15	9?	11	7	12	12	18?	8	9	13	135?
47	西江原 Nishiebara.	12	7	15	12	9	10	10	4	16	7	6	1	109
48	東城 Tōjō.	18	13	17	14	16	10	16	12	22	9	11	18	176
49	油木 Yuki.	15	9	15	14	13	9	12	10	20	6	8	15	146
50	原古才 Harakosai.	10?	5	15	12	11	8	10	6	17	9	6	3	112?
51	味野 Ajino.	15	8	15	13	13	13	11	5	16	6	9	7	131
52	東野崎 Higashinosaki.	13	9	15	12	11	10	11	6	19	6	5	3	120
	旭川 Asahi-gawa.													
53	下出石 Shimoizuishi.	14	8	16	13	13	12	11	6	18	9	7	3	130
54	岡山 Okayama.	14	8	15	12	11	11	11	6	18	9	7	2	124
55	金川 Kanagawa.	11	6	14	11	9	10	13	5	15	7	5	3	109
56	下弓削 Shimoyuge.	13	7	11	11	12	10	10	12	17	9	7	4	123
57	勝山 Katsuyama.	11	10	15	12	11	8	12	11	18	8	11	11	138
58	湯本 Yumoto.	12	10	15	8	9	7	9	9	13	5	6	10	113
59	西輕部 Nishikarube.	11	6	14	11	13	9	12	8	17	9	10	3	123
	吉井川 Yoshii-gawa.													
60	西大寺 Saidaiji.	12	7	15	11	10	10	11	8	17	7	7	4	119
61	津山 Tsuyama.	9	7	15	12	11	7	12	7	19	6	4	6	115
62	倉敷 Kurashiki.	10	6	12	13	11	9	13	9	14	6	6	3	112
63	勝間田 Katsumada.	10	6	15	12	12	9	12	11	19	7	7	4	124
64	西片上 Nishikatakami.	14	7	15	11	14	12	13	7	17	7	8	3	128
	千種川 Chikusa-gawa.													
65	大持 Daimochi.	8	7	13	9	8	7	10	4	12	5	6	2	91
66	佐用 Sayō.	10	7	15	10	12	9	12	13	16	8	9	5	126
	揖保川 Ibo-gawa.													
67	龍野 Tatsuno.	10	6	9	10	11	8	13	9	17	6	8	4	111
68	安積 Azumi.	8	4	13	10	10	7	11	8	16	5	7	3	102
	市川 Ichi-kawa.													
69	西田原 Nishitawara.	7	5	14	11	10	10	13	11	18	6	9	5	119
70	生野 Ikuno.	10	6	11	11	8	8	12	15	16	10	12	5	124
	加古川 Kako-gawa.													
71	加古川 Kakogawa.	8	5	8	9	7	6	12	4	20	6	7	3	95

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第四區 乙 内海ノ續 北岸ノ續	IV. INLAND-SEA.—Continued. b N. Coast.—Continued.												
	加古川ノ續 Kako-gawa. (*Continued*).													
72	佐治 Saji.	12	10	12	14	8	8	13	15	22	9	17	16	156
73	篠山 Sasayama.	25	19	20	16	14	17	16	14	24	14	16	14	209
74	和田岬 Wadanomisaki.	12	6	13	11	10	9	13	1	21	5	7	6	114?
75	神戸 Kōbe.	14	8	15	15	11	12	13	8	24	7	6	9	142
	池田川 Ikeda-gawa.													
76	池田 Ikeda.	7	4	8?	12	8?	8	12	5	19	4	5	....	....
77	宿野 Shukuno.	8	3?	10	11?	8?	5?	7?	5	16?	7	2	3	85
78	地黄 Jiō.	14	6	14	13	12	10	13	6	19	9?	11	4	131
	淀川 Yodo-gawa.													
79	本島 Hontorishima.	14	7	14	13	16	9?	15	4?	21	7?	10	5	135?
80	天保山 Tenpōsan.	12	7	14	14	13	9	12	5	20	6	7	5	124
81	大阪 Ōsaka.	13	10	13	14	14	11	12	7	21	8	9	9	141
82	大阪 Ōsaka.	10	4	11	10	11	9	9	4	19	8	7	7	109
83	大阪 Ōsaka.	13	7	14	13	15	11	14	7	22	8	8	7	139
84	天王寺 Tennōji.	12?	....	....	8?	15?	9	15	5	22	8	5	3	102
85	茨木 Ibaraki.	14?	10	13	13	12?	9	13	12	21	8	8	6	139
86	牧方 Hirakata.	11	6	11	10?	10	9	12	9	18	6	6	2	110?
87	向日 Mukō.	10	6	15	13	13	10	15	11	20	8	8	4	133
88	淀 Yodo.	13	9	14	13	12	9	13	14	18	7	6	6	134
89	伏見 Fushimi.	12	7	13	10	10	10	11	11	19	8	8	6	125
90	醍醐 Daigo.	10	6	13	11	10	9	12	9	18	6	7	3	114
91	津口 Kusatsu.	11	6	9	7	12	6	....	8	19	8	9	3	98
92	水口 Minaguchi.	17	16	15	14	12	10	9	11	19	5	6	9	143
93	八幡 Hachiman.	11	8	13	13	12	9	9	8	18	5	10	9	125
94	愛知川 Echigawa.	23	14	15	16	14	10	15	14	23	8	14	15	181
95	山上 Yamakami.	21	16	....	15	15	19	14	11	20	3?	10	13	....
96	根古 Hikone.	22	19	15	18	16	12	17	12	21	9	14	22	197
97	長濱 Nagahama.	21	12	16	13	15	12	13	9	21	10	15	22	179
98	木本 Kinomoto.	20	14?	12?	15	13	10	12	10	19	10	12	21	168
99	内ノ河 Nakakawachi.	....	17?	14?	14	14?	12	17	11	18	13	15	22	....
100	津 Imazu.	23	21	16	18	13	10	13	9	19	9	14	23	188
101	今比叡山 Hiezan.	21	17?	17	17	17	16	18	16	22	9	10	8	188
102	大津 Ōtsu.	13	7	16	12	12	9	18	15	23	9	12	9	155
103	田辺 Tanabe.	14	10	14	14	12	9	11	7	19	8	10	6	134
104	木津 Kizu.	14	6	14	13	11	9	13	11	22	8	10	8	139
105	名張 Nabari.	14	8	13	10	11	7?	13?	8	20	7	6?	2?	119
106	名張 Nabari.	14	6?	11?	13	13?	9?	12	7	23	8	6	7	129
107	南ノ庄 Minaminoshō.	—	—	—	—	—	—	—	—	—	—	8	8	—
108	月瀬 Tsukinose.	—	—	—	—	—	—	—	—	—	7	6?	3	—
109	上野 Ueno.	14	8	10	14	12	9	11	7	19	7	9	4	124
110	針ケ別所 Harigabessho.	15	10?	13?	14	14	11	17	5	19	....	—	—	....
111	松山 Matsuyama.	10?	9	15	16	17	12	15	10	21	....	8	6	....
112	菅野 Kwanno.	19	15	14	19	16	15	18	7	22	8	8	6?	170
113	神末 Kamisue.	—	—	—	—	—	—	—	—	—	—	—	12	—
114	太秦 Uzumasa.	13	10	16	13	9	11	13	12	18	7	6	9	137
115	亀岡 Kameoka.	16	11	18	17	13	10	12	8	19	8	6	4	142
116	園部 Sonobe.	20	14	18	14	15	11	15	15	23	10	16	10	181
117	周山 Shuzan.	18	17	20	15	14	15	15	11	23	9	13	13	183
118	京都 Kioto.	19	16	18	17	16	11	15	14	23	9	13	13	184
119	田中 Tanaka.	15	10	17	14	15	10	14	14	22	9	11	11	162
	大和川 Yamato-gawa.													
120	八尾 Yao.	12	9	17	13	11	12	14	3?	22	6?	8	7	134
121	柏原 Kashiwabara.	10	5?	11	10	....	....	....	....	....	....	....	....	....
122	富田林 Tondabayashi.	15	8	13	12	13	10	10	8	22	7?	8?	8	134
123	王寺 Ōji.	16	7	14	16	16	9	17	4	23	8	8	8	146
124	郡山 Kōriyama.	—	—	—	—	—	—	—	—	—	7	7	6	—
125	奈良 Nara.	16	9	13	14	9	10	11	7	22	7	9	6	133
126	高山 Takayama.	—	—	—	—	—	—	—	—	—	8	9	7	—
127	高田 Takata.	—	—	—	—	—	—	—	—	—	8	....	....	....
128	御所 Gose.	15	11	14	12	15	12	14	7	21	8	9	12	150
129	八木 Yagi.	15	12	15	15	15	9	13	7	23	6	9	13	152
130	田原 Tahara.	10	5	11?	12	8	9	8	4?	18	7	7	4	103

第三表　明治卅年降水日數

TABLE III.　NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第四區 乙 内海ノ續 北岸ノ續	IV. INLAND SEA.—Continued. b N. Coast.—Continued.												
	大和川ノ續 Yamato-gawa. (Continued.)													
131	三輪 Miwa.	15	11	15	17	17	10	14	9	23	7	9	10	157
132	丹波市 Tanbaichi.	—	—	—	—	—	—	—	—	—	7	6	6	—
133	初瀬 Hatsuse.	17	12	16	15	16	11	15	7	....	....	7	9	....
134	堺 Sakai.	13	6	12	13	15	10	10	4	....?	7	9	3	....
135	長承寺 Chōshōji	13	6	12	12	12	11	14	....	....	7	9	7	....
136	岸和田 Kishiwada.	15	11	12	15	13	11	13	2	24	8	10	6	140
137	尾崎 Osaki.	....	....	....	....	8	10	9?	....	20	....	....	....	....
138	谷川 Tagawa.	13	6	12	13?	8?	7?	9	2	21	9?	6?	3	109?
	第五區 日本海	V. SEA OF JAPAN.												
1	三ツ島 Mitsushima.	12	8	16	12	10	6	13	12	16	3	8	3	119
2	佐奈須 Sasuna.	17	12	20	10	10	6	20	21?	20	5	14	4	159
3	原 Itsugahara.	17	9	17	9	12	10	17	17	20	5	15	5	153
4	神崎 Kamisaki.	15	5	15	8	10	6	13	9	13	2	4	3	103
5	武生水 Mushōzu.	22	19	19	8	10	9	10	15	15?	4?	13	13	157
6	伊萬里 Imari.	13	6	15	5	5	3	6	6	8	1	7	—	75
7		13	15	11	11	9	6	10	16	18	5	9	12	135
8	烏帽子島 Yeboshishima.	11	8	15	11	9	9	13	11	16	3	10	8	124
9	前原 Mayebara.	17	13	19	11	9	10	14	13	18	3	9	11	147
10	福岡 Fukuoka.	20	17	21	12	11	9	13	14	17	5	10	18	167
11	二日市 Futsukaichi.	20	18	21	11	11	8	18	16	16	5	12	19	175
12	大川 Ōkawa.	20	17	17	11	10	6	12	12	15	5	9	12	146
13	東郷 Tōgō.	22	16	20	13	11	9	11	13	18	3	12	18	166
	遠賀川 Oshika-gawa.													
14	蘆屋 Ashiya.	19	18	19	10	9	9	15	10	18	5	9	15	156
15	直方 Naokata.	14	14	15	....	9	7	13	13	16	5	9	13	....
16	直方 Naokata.	22	....	....	....	....	....	....	....	....	....	....	....	....
17	飯塚 Iizuka.	16	18	17	10	10	7	14	13	17	5	8	15	150
18	土居 Doi.	11	9	14	9	9	6	12	11	13?	3?	8	6	111
19	香春 Kaharu.	13	11	15	9	5	6	9	4	14	....	6	10	....
20	添田 Soeda.	19	17	18	12	12	8	6	8	17	5	9	11	142
21	小倉 Kokura.	13	12	13	12	7	5	11	12	14	5	7	10	121
22	白洲 Shirasu.	16	15	17	12	11	8	10	9	18	4	11	12	143
23	六連島 Mutsurenshima.	17	18	18	12	11	8	14	10	15	4	12	14	153
24	赤間關 Akamagaseki.	19	16	19	13	13	8	13	15	16	4	10	14	160
25	角島 Tsunoshima.	14	14	17	12	9	7	12	10	18	2	7	9	131
26	河原 Kawara.	20	13	21	11	10	9	11	13	20	6	13	....	....
27	見島 Mishima.	21	16	22	9	11	8	13	17	18	4	13	11	163
	松本川 Matsumoto-gawa.													
28	萩 Hagi.	19	13	18	10	10	10	11	10	17	5	8	17	148
29	須佐 Susa.	25	14	19	12	11	10	14	11	21	6?	14	23	180
30	津和野 Tsuwano.	20?	14?	16?	12	13?	9?	16	16	18	5	10	20	169
31	益田本郷 Masudahongō.	22	17	18	11	11	7?	12	10	16	8	14	19?	165
32	濱田 Hamada.	25	17	20	15	14	9	18	13	21	8	15	25	200
	鄕川 Gō-kawa.													
33	川本 Kawamoto.	17?	18	17	8?	10?	7?	12	13?	17?	8	9?	16?	152
34	濱原 Hamahara.	24	18	20	15	14	11	20	15	20	11	16	28	212
35	三吉 Miyoshi.	12	8	10	10	8	5	9	8	12	7	8	12	109
36	三阪 Mirasaka.	11	8	11	10	5	6	9	6	9	4	4	6	89
37	西野 Nishino.	18	7	16	13	11	9	8	8	12	6	5	7	120
38	生田 Ikuda.	17	18	19	....	....	....	....	....	....	....	....	....	....
39	吉田 Yoshida.	14	12	16	7	12	6	7	8	18	7	7	7	121
40	壬生 Mibu.	16	17	13	9	11	8	10	10	19	7	10	7	137
41	大朝 Ōasa.	20	18	20	11	12	8	9	13	10	6	5	....	....
42	上布野 Kamifuno.	16	11	11	9	10	7	9	10	16	5	7	19	130
43	新市 Shinichi.	11	9	16	12	9	9	13	9	17	6	7	6	124
44	庄原 Shōhara.	8	6	15	12	10	8	10	12	18	6	6	11	122
45	西城 Saijō.	13	8	18	12	17	9	14	14	15	9	8	9	143
46	小島原 Koshimahara.	15	13	16	13	11	9	12	13	21	7	11	19	160
47	比和 Hiwa.	—	—	—	—	—	—	—	13	18	7	13	6	—

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續	V. SEA OF JAPAN.—Continued.												
48	大森 Ōmori.	....	14?	....	....	....	5?	9?	14	15?	....	13?	....	....
49	太田 Ōta.	....	....	....	....	....	....	....	10?	17	9?	15	26	....
50	鹽冶 Enya.	22	17	22	13	11	11	18	12	22	10	15	26	199
51	今市 Imaichi.	13?	12	14	8?	11	....	12	....	....	5?	9?	20	....
	斐伊川 Hino-gawa.													
52	大東 Daito.	....	....	....	9?	9?	5?	6?	9?	21	9?	13	23	....
53	掛合 Kakeya.	16?	....	....	....	....	....	10?	....	15?	....	12?	21	....
54	三成 Minari.	—	—	—	—	—	—	—	—	—	—	11?	24	—
55	福富 Fukudomi.	23	15?	16?	12	9	8	11	11	19	8	13	23	168
56	廣瀨 Hirose.	17	17	20	12	10	12	11	13	22	10	14	21	179
57	八田子 Hatta.	18	21	19?	14	9?	5	9?	8	16?	7	17	31	174
58	米子 Yonago.	....	....	12	13	9	8	12	9	18	11	13	....	....
59	境 Sakai.	25	19	20	18	9	12	14	11	23	15	16	28	210
60	境 Sakai.	21	17	18	14	12	11	14	9	19	13	12	23	183
	日野川 Hino-gawa.													
61	二部 Nibu.	13	14	19	9	9	10	14	15	20	6	10	16	155
62	黒坂 Kurozaka.	19	19	19	14	15	13	15	10?	17	8	10	25	184
63	多里 Tari.	22	18	15	12	10	9	14	14	21	8	5?	24	172
64	佐摩 Sama.	26	18	21	18	12	13	15	12	20	12	14	28	209
65	御來屋 Mikuriya.	25	13	19	13	11	11	14	9	20	13	13	25	186
66	八橋 Yabashi.	....	....	....	....	....	....	—	....	....	....	11	....	....
67	倉吉 Kuravoshi.	23	17	19	19	14	13	15	12	24	11	15	22	204
68	青谷 Aoya.	17	15	20	14	11	9	13	8	15	6?	9	24	161
69	吉岡 Yoshioka.	14	10	12	10	9	11	15	12	23	9	13	22	160
	千代川 Chiyo-gawa.													
70	智頭 Chizu.	24	17	25	20	13	14	17	14	23	14	15	19	215
71	鳥取 Tottori.	22	17	20	17	14	11	13	9	19	10	12	22	186
72	栃本 Tochimoto.	17	14	16	17	11	12	16	13	20	13	12	23	184
73	郡家 Kōge.	23	16	20	16	12	9	11	13	21	11	15	25	192
74	若櫻 Wakasa.	20	19	19	15	8	11	15	7	19	12	14	21	180
75	岩井 Iwai.	22	19	22	18	14	16	16	13	26	21	16	28	231
76	湯村 Yumura.	18	12	18	16	12	12	14	14	24	18	17	29	204
	圓山川 Inzau-gawa.													
77	豐岡 Toyo-oka.	22	12	22	16	11	15	15	14	22	16	15	26	206
78	出石 Izushi.	18	16	17	13	9	9	8	11	19	10	12	15	157
79	和田山 Wadayama.	13	15	16	12	8	9	13	17	22	10	13	21	169
80	久美濱 Kumihama.	25	19	20	16	11	16	14	12	23	16	15	30	217
81	網野 Amino.	20	21	19	16	9	13	14	11	22	15	17	29	206
82	峯山 Mineyama.	24	21	22	19	15	16	15	15	23	16	19	27	232
83	宮津 Miyatau.	24	21	23	18	12	13	17	12	21	12	15	26	214
	由良川 Yura-gawa.													
84	由良 Yura.	21	15	19	15	12	13	15	11	22	19	13	21?	188
85	福知山 Fukuchiyama.	16	12	15	14	10	7	10	12	17	10	13	10	146
86	綾部 Ayabe.	21	16	23	17	15	12	15	10	24	13	13	17	196
87	鷹栖 Takasu.	13	15	17	15	10	11	10	9	19	11	13	15	158
88	舞鶴 Maitsuru.	19	13	23	16	15	14	17	11	24	15	16	25	208
89	高濱 Takahama.	—	—	—	—	—	—	14	13	20	10	11	....	....
90	久阪 Hisasaka.	—	—	....	—	11	12	8	11	20	12	13	....	....
91	小濱 Obama.	—	—	—	—	—	—	13	13	20	14	14	....	....
92	熊川 Kumakawa.	....	....	....	....	14	11	8	12	19	12	15	....	....
93	三方 Mikata.	—	—	—	—	—	—	12	12	22	13	13	....	....
94	立石岬 Tateishinohana.	23	21	14	16	15	11	18	10	21	12	14	23	198
95	敦賀 Tsuruga.	—	—	—	—	—	—	—	—	—	16	15	....	....
	九頭龍川 Kuzuriu-gawa.													
96	三國 Mikuni.	—	—	—	—	—	—	12	6?	11	....	10?	....	....
97	福井 Fukui.	26	23	21	19	17	13	19	17	22	20	18	28	242

第三表　明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區　日本海ノ續	V. SEA OF JAPAN.—Continued.												
	九頭龍川ノ續 Kuzuriu-gawa. (*Continued*).													
98	松岡 Matsuoka.	—	—	—	—	—	—	11	8?	14?	8?	13	....	....
99	大野 Ōno.	....	....	....	....	14	13	16	18	22	16	11	....	....
100	大野 Ōno.	—	—	—	—	—	—	16	....	....	....	....	....	....
101	貝皿 Kaizara.	—	—	—	—	—	—	—	21	20	12	14	....	....
102	大谷 Ōya.	—	—	—	—	—	—	—	15	21	14	13	....	....
103	東鄉 Tōgō.	—	—	—	—	—	—	14	....	20	14	15	....	....
104	稻荷前 Inari nai.	—	—	—	—	—	—	—	10?	20	12?	13	....	....
105	鯖江 Sabae.	—	—	—	—	—	—	16	8	22	11?	15	....	....
106	武生 Takefu.	—	—	—	—	—	—	10	10	18?	13?	11	....	....
107	今莊 Imajō.	....	....	....	....	....	....	15	10?	20	14	13	....	....
108	西田中 Nishitanaka.	—	—	—	—	—	—	14	9	18	15	14	....	....
109	大聖寺 Daishōji.	21	18	15	14	13	8	15	7	19	18	13	29	190
110	小松 Komatsu.	22	19	16	13	12	13	15	10	21	18	15	29	203
111	白峯 Shirane.	....	....	....	....	14	10	16	13	22	18	....	....	....
112	松任 Matsutō.	23	18	18	17	12	11	17	10	21	20	17	29	213
113	金澤 Kanazawa.	25	22	17	18	17	14	18	13	23	23	18	27	235
114	津幡 Tsubata.	17	14	11	11	10	7	12	5	16	10	11	24	148
115	羽咋 Hagui.	21	19	12	14	13	8	18	13	22	19	17	28	204
116	輪島 Wajima.	25	20	16	17	9	12	17	14	20	19	20	28	217
117	祿剛崎 Rokkōsaki.	24	13	14	19	14	12	15	15	23	19	16	28	212
118	野々江 Nonoe.	22	21	15	15	6	5	14	7	15	12	13	27	172
119	飯田 Iida.	21	17	14	14	6	7	13	8	....	12	14	28	....
120	七尾 Nanao.	18	11	5	10	5	3	17	13	19	18	16	28	163
121	氷見 Himi.	—	17	16	18	14	9	....	....	....	....	14?	....	....
	庄川 shō-kawa.													
122	伏木 Fushiki.	25	22	18	20	17	16	17	15	22	19	17	27	235
123	高岡 Takaoka.	17?	....	....	....	....	12	15?	9	21	13	14	20	....
124	金屋黑岩 Kanayaiwakuro.	....	....	....	....	14	14	17	14	24	13	....	....	....
125	井波 Inami.	27	20	12	18	15	14	15	14	23	16	14	26	214
126	今石動 Imaisuruo.	—	—	—	—	13	8?	17	9	20	17	14	26	....
	神通川 Jintsu-gawa.													
127	富山 Toyama.	16	13	17	15	16	11	15	11	17?	15?	11	19	176
128	古川 Furukawa.	—	—	—	—	—	—	—	—	—	—	12	22	—
129	高山 Takayama.	16	12	10	13	13	7	16	11	20	12	12	18	160
130	三室荒屋 Mimuroaraya.	....	....	....	....	15	13	17	13	24	21	....	....	....
131	船津 Funatsu.	....	....	....	....	12	8	16	13	20	13	....	....	....
132	船津 Funatsu.	—	—	—	—	—	—	16	15	21	12	13	....	....
133	魚津 Uotsu.	17	14?	13?	13	12	9?	15	15?	25	16	15?	25	189
134	糸魚川 Itoigawa.	24	18	17	16	11	9	16	12	24	20	19	27	213
135	南小谷 Minamiotani.	—	—	—	—	—	—	11	6	....	....	13	....	....
	關川 seki-gawa.													
136	高田 Takata.	....	....	....	19	9	7	13	14	21	19	19	....	....
137	關山 Sekiyama.	....	....	....	....	10	12	20	20	22	15	....	....	....
138	安塚 Yasuzuka.	....	....	....	9	5	8	13	14	24	27	20	....	....
	信濃川 Shinano-gawa.													
139	新潟 Niigata.	23	19	16	19	13	9	18	13	22	22	18	28	220
140	新潟 Niigata.	23	24	19	19	16	13	19	17	24	22	18	30	244
141	新潟 Niigata.	23	20	15	16	11	10	15	16	20?	22	17	29	214
142	三條 Sanjō.	21	19	18	18	11	11	16	16?	23	25	18	27	223
143	與板 Yoita.	10	8	10	17	7	6	14	13	24	24	17	....	....
144	長岡 Nagaoka.	....	....	....	14	11	5	13	15	21	23	16	....	....
145	小千谷 Ojiya.	....	....	....	....	....	8	13	14	14	16	14	....	....
146	十日町 Tōkamachi.	....	....	....	11	13	10	16	16	24	18	13	....	....
147	豐鄉 Toyosato.	....	....	....	....	9	7?	12	13	23	11	14	....	....
148	飯山 Iiyama.	....	....	....	15	10	10?	15	10	22	12	12	10?	....
149	中野 Nakano.	7	5	11	9	10	11	13	11?	19	8	6	18?	128
150	豐津 Toyotsu.	20	14	16	16	13	11	18	17	22	10	12	22	191
151	須坂 Susaka.	8	5	7	12	9	8	12	9	17	8	6	7	108
152	禮井 Nirei.	....	7	14	13	9	10	14	13	20	7?	10	13	—
153	篠ノ井 Shinonoi.	13	11	12	14	13	12	16	14	20	8	10	18	161

第三表　明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year.
	第五區　日本海ノ續	V. SEA OF JAPAN.—Continued.												
	信濃川ノ續 Shinano-gawa. (*Continued*)													
154	屋代 Yashiro.	11	5	11	12	12?	11	14	12	17	8?	7?	10	130
155	上田 Ueda.	5	2	5	10	9?	10?	11	8	17	7	4	0	88
156	岩村田 Iwamurada.	7	3	10	12	11	15?	16	13	....	....	....	....	....
157	臼田 Usuda.	8	2	9	12	12	14	15	8	19	9	8	3	119
158	西内 Nishiuchi.	12	4	10	10?	11	14	13	11	17	7	6	3	118
159	巻 Maki	18	11	12	14	11	8	16	12	21	24	20	28	195
160	村松 Muramatsu.	....	....	....	....	11	13	15	19	23	23	....	....	....
161	豫尾町 Tochiomachi.	....	....	....	....	15	12	17	21	23	24	....	....	....
162	孟地 Mochi.	....	....	....	....	9	6	10	13	20	....	....	....	....
163	六日町 Muikamachi.	12	9	15	14	11	9	16	14	24	17	17	21	179
164	湯澤 Yusawa.	....	....	....	....	14	16	17	21	23	19	....	....	....
165	長野 Nagano.	17	13	16	16	14	12	19	18	19	7	13	23	187
166	南小川 Minamiogawa.	—	....	—	—	—	—	—	—	—	—	11	....	....
167	牧田中 Makitanaka.	9	5	5	12	10	7?	13	9	18	8	9	6	111
168	大町 Ōmachi.	12	6	10	10	13	14	16	14	19	9	7	13	143
169	成相新田 Nariaishinden.	8	3?	7	13	11	8	13	10	19	8	9	3	112
170	松本 Matsumoto.	6?	4?	....	....	14	15?	15?	14	....	9?	8	....	....
171	奈良川 Naragawa.	11?	6	12	11	13	12	16	7	19	8	7?	8	130
172	島々 Shimashima.	....	....	....	....	11	8	16	5	15	5	....	....	....
173	姫崎 Himesaki.	19	17	16	17	6	6	16	10	17	20	13	26	183
	阿賀野川 Akano-gawa.													
174	新發田 Shibata.	23	21	19	18	14	14	18	16	22	24	17	29	235
175	津川 Tsugawa.	....	....	....	20	16	12	15	18	23	24	17	....	....
176	喜多方 Kitakata.	20	17	12	17	11	10	21	19	24	22	14	....	....
177	阪下 Bange.	14	11	16	19	10	14	16	17	24	19	16	24	200
178	高田 Takata.	14	14	18	16	10	12	15	17	21	18	12	16	183
179	若松 Wakamatsu.	9	8	10	13	7	9	8	13	18	15	10	18	138
180	福良 Fukura.	....	....	....	....	4	6	7	8	14	3	....	....	....
181	猪苗代 Inawashiro.	2?	1	5	9	7	11	14	14	22	13	13	....	....
182	只見 Tadami.	....	....	....	....	12	12	16	20	24	23	....	....	....
183	田島 Tajima.	8	5	7	11	9	10	10	12	11	7	10	7	107
184	小國 Okuni.	....	....	....	....	16	13	16	15	....	....	....	....	....
185	村上 Murakami.	10	7	6	20	11	11	10	11	19	17	13	....	....
186	加茂 Kamo.	....	....	....	15	12	17	14	11	20	19	15	30	....
	最上川 Mogami-gawa.													
187	酒田 Sakata.	10	10	8	13	11	9	12	10	20	15	13	17	148
188	酒田 Sakata.	18	18	13	16	14	10	17	14	19	18	13	30	200
189	新庄 Shinjō.	12	9	17	19	13	15	16	15	22	23	17	28	206
190	楯岡 Tateoka.	13	13	9	13	7	12	11	12	17	16	8	27	158
191	天童 Tendo.	11	7	7?	9	7	11	16	9	17	11	7	....	....
192	寒河江 Sagae.	10	11	10	13	8	12	15	9	19	17	8	21	153
193	山形 Yamagata.	16	18	17	17	12	14	21	22	21	21	14	26	219
194	上ノ山 Kaminoyama.	15	13	14	18	11	14	17	17	21	20	13	26	199
195	宮 Miya.	17	14	11	19	9	11	17	13	19	14	11	24	179
196	赤湯 Akayu.	—	—	—	—	7	14	17	17	19	21	9	23	—
197	高畑 Takahata.	15	13	14	17	—	—	—	—	—	—	—	—	—
198	米澤 Yonezawa.	14	7	9	15	8	12	15	16	22	20	14	11	163
199	大鳥 Ōtori.	25	23	21	22	17	16	19	16	24	23	21	30	257
200	鶴岡 Tsurugaoka.	25	25	25	21	15	14	20	18	23	24	17	28	255
201	藤島 Fujishima.	19	18	14	16	13	11	13	12	20	22	16	29	203
	子吉川 Koyoshi-gawa.													
202	本荘 Honjō.	24	20	15	15	13	13	21	13	22	21	13	29	219
203	矢島 Yashima.	....	....	....	16	9	13	8	4?	21	23	14	....	....
204	道川 Michikawa.	21	18	15	9	13	10?	17	11	19	16	13	27	189
205	象潟 Hisakata.	15	4	12	17	16	11	13	9	20	19	15	30	181
	雄物川 Omono-gawa.													
206	土崎 Tsuchisaki.	12	....	....	11?	14	6	17	9	22	15	9	18	....
207	秋田 Akita.	22	22	19	19	17	14	21	15	20	21	18	30	238
208	新波 Araha.	23	20	20	15	16	15	19	13	21	19	13	30	224

第三表 明治卅年降水日數

TABLE III. NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第五區 日本海ノ續													
	雄物川ノ續 Omono-gawa. (*Continued.*)													
209	大曲 Ōmagari.	12	16	15	10	8	10	10	6	8	13	9?	25	142
210	横手 Yokote.	....	....	....	....	....	....	....	9?	17	13?	6?	....	....
211	沼館 Numadate.	....	....	....	....	12	14	15	16	22	20	15	....	....
212	西馬音内 Nishimonai.	8	15?	....	17	11	4	4	14	29	17	....	22?	....
213	稲庭 Inaniwa.	21	18	20	15	18	19	19	17	21	20	16	28	232
214	川向 Kawamukai.	20	19	16	10	12	14	11	12	20	15	12	26	187
215	角館 Kakunotate.	22	21	19	17	21	15	21	14	22	20	16	28	236
216	田澤 Tazawa.	19	19	16	15	18	17	20	12	18	16	14	25	209
217	目長崎 Memagasaki.	19	20	13	15	15	12	22	12	20	19	14	29	210
218	笠岡 Kasaoka.	24	22	14	14	14	12	20	13	20	20	16	31	220
219	五城目 Gojōnome.	15	15	9	9	16	14	20	14	20	18	16	26	192
	米代川 Yoneshiro-gawa.													
220	能代 Noshiro.	....	17	12	15	13	10	19	11	20	20	12	31	....
221	鷹巣 Takanosu.	28?	21	21	16	19	15	19	16	21?	17	15	30	238
222	大館 Ōdate.	....	....	....	8	13	5	13	10	14	12	....	....	....
223	扇田 Ōgita.	16	17	18	16	16	9	20	12	18	17	13	21	193
224	毛馬内 Kemanai.	....	....	....	....	....	4	12	13	16	14	13	....	....
225	花輪 Hanawa.	17	13	14	14	14	9	15	15	18	18	13	24	184
	岩木川 Yuwaki-gawa.													
226	五所河原 Goshogawara.	22?	19	15?	11?	12?	9?	7?	12?	18?	20	14?	26?	185
227	弘前 Hirosaki.	17	17?	20	15	15	13	12	7?	14	15?	8?	....	....
228	國吉 Kuniyoshi.	19	17	7	6	9	8	9	10	14	15	9	17	140
229	黒石 Kuroishi.	11	12	7?	5?	10?	6	5?	8?	18	15	10	16?	123
230	江良町 Eramachi.	18	16	13	10	13	10	10	8	12	14	15	22	161
231	鷗島 Kamomeshima.	19	19	15	13	13	13	15	8	17	18	13	27	190
232	乙部 Otobe.	....	....	....	11	13	7	11	11	10	12	13	3	....
233	釣掛 Tsurikake.	22	16	15	9	9	11	12	7	13	20	11	27	172
234	稲穂崎 Inahosaki.	21	15	12	10	10	14	14	6	15	13	11	22	163
235	太櫓 Futoro.	11	7	5	7	3	5	3	8	7	16	5	5	82
236	永豐 Nagatoyo.	12	17	17	10	11	4	5	1	7	15	6	15	120
237	黒松内 Kuromatsunai.	....	....	....	....	10	10	10	8	13	17	12	27	....
238	辨慶崎 Benkeisaki.	15	11	11	7	12	8	12	6	15	17	11	13	138
239	壽都 Suttsu.	23	18	20	10	13	10	12	5	14	20	12	30	187
240	岩内 Iwanai.	20	14	17	10	11	8	6	7	11	17	9	24	154
241	神惠内 Kamuinai.	....	....	....	13	13	8	4	5	9	10	6	....	....
242	神威岬 Kamoimisaki.	24	19	19	9	15	11	9	8	13	16	11	25	179
243	仁木 Niki.	....	....	....	....	14	9	6	7	9	18	8	....	....
244	日和山 Hiyorimiyama.	27	22	16	10	15	11	10	11	14	16	7	22	181
	石狩川 Ishikari-gawa.													
245	石狩 Ishikari.	23	18	15	7	14	9	10	6	13	19	13	28	175
246	札幌 Sapporo.	23	21	20	13	14	13	11	7	16	23	13	20	194
247	忠別 Chūbetsu.	25	19	17	8	14	18	11	11	18	21	16	29	207
248	千歳 Chitose.	11	8	5	3	9	11	11	8	10	12	5	2?	95
249	増毛 Mashike.	24	20	21	8	15	13	10	9	12	17	10	29	188
250	留萌 Rurumotsupe.	9	2	....	2	3	....	....	....	....	....	....	....	....
251	雄冬泊 Oshitomari.	25	21	20	11	11	14	11	6	10	13	8	17	167
	仁川 Jenchuan.	10	6	6	8	6	6	16	19	4	7	11	6	105
	釜山 Fusan.	6	4	10	7	8	5	14	10	14	3	7	2	90
	釜山 Fusan.	4	3	9	7	8	5	12	7	14	1	5	2	77
	元山 Yuensan.	6	2	10	4	4	6	12	10	1	3	6	—	64
	浦潮港 Vladivostok.	7	2	8	7	7	15	9	11	6	10	5	1	88
	第六區 津輕海峽													
1	青森 Aomori.	24	19	20	17	16	14	11	12	20	19	13	29	214
2	脇ノ澤 Wakinozawa.	17	15	10	10	9	7	9	10	13	13	8	20	141
3	田名部 Tanabe.	19	18	14	17	16	12	12	12	15	22	14	18	189
4	尻屋崎 Shiriyasaki.	21	14	15	15	17	10	13	10	16	17	12	17	177
5	辨天島* Bentenshima.*	17	16	8	15	15	12	13	10	15	20	11	14	166
6	福島 Fukushima.	1	4	6	12	....	....	....	....	....	....	....	....	....

福山港 * Harbour of Fukuyama.

第三表　明治卅年降水日數

TABLE III.　NUMBER OF RAINY DAYS IN 1897.

番號 No.	地名 Locality	一月 Jan.	二月 Feb.	三月 Mar.	四月 Apr.	五月 May	六月 June	七月 July	八月 Aug.	九月 Sept.	十月 Oct.	十一月 Nov.	十二月 Dec.	年 Year
	第六區　津輕海峽ノ續						**VI. TSUGARU STRAIT.—Continued.**							
7	白神崎 Shirakamisaki.	20	13	8	11	12	10	14	11	15	18	13	22	167
8	葛登支岬 Kattojimisaki.	19	15	16	11	13	13	9	8	14	19	13	23	173
9	七飯 Nanaii.	14	16	11	10	11	11	8	9	12	14	12	16	144
10	函館 Hakodate.	20	15	18	13	13	16	18	9	18	17	15	27	199
11	汐首岬 Shiokubesaki.	21	11	15	15	12	15	17	12	17	16	15	17	183
12	恵山岬 Yesanmisaki.	16	10	12	13	15	9	10	13	17	14	15	8	152
13	臼尻 Usushiri.	12	9	5	7	10	7	7	7	13	13	14	12	116
14	鹿部 Shikabe.	5	2?	3?	8	12	6	6	7	8	12	8	2	79
15	森 Mori.	2	2?	....	3	5	3	4	5	8	8	8	....	....
16	大黒島† Daikoku-hima.†	15	11	8	8	9	12	12	6	10	16	9	9	125
17	白老 Shiraoi.	8	5	8	4	5	....	....	....	....	....	....	....	....
18	苫小牧 Tomokomai.	8	6	7	5	9	5	6	3?	9	10	7	2?	77
19	下方 Shimogehō.	8	5	3	6	11	4	6	7	10	11	6	2?	79
20	浦河 Urakawa.	17	17	9	11	13	12	11	9	15	19	14	11	158
21	襟裳岬 Yerimomisaki.	11	10	8	14	13	10	14	15	15	17	12	13	152
	第七區　阿哥斯克海						**VII. OKHOTSK SEA.**							
1	宗谷岬 Soyamisaki.	24	21	19	15	10	17	12	9	12	15	12	28	194
2	網走 Abashiri.	17	15	13	10	11	16	13	9	12	15	14	17	162
3	斜里 Shari.	9	3	9	6	3	5	10	9	11	10	7	4	86
	第八區　州南諸島						**VIII. SOUTHERN ISLANDS.**							
1	恒春 Kōshun.	7	2	8	5	4	21	20	21	19	17	12	12	148
2	臺南 Tainan.	8	6	4	11	9	18	15	17	9	4	8	3	112
3	澎湖島 Hōkotō.	5	8	6	10	7	14	7	14	0	4	8	1	84
4	臺中 Taichu.	9	17	7	11	7	17	12	20	6	4	8	5	123
5	臺北 Taihoku.	15	23	12	15	10	13	13	16	13	15	21	16	182
6	石垣島 Ishigakijima.	27	23	14	16	15	22	13	24	20	17	20	25	236
7	西里 Nishisato.	23	23	16	14	11	18	5	16	18	12	10	17	183
8	具志川 Gushichа.	10	17	6	7	7	11	8	....	8	6	7	13	....
9	喜武 Chan.	19	13	7	6	4	16	7	6	10	9	7	14	118
10	富里 Fuzato.	8	11	5	12	5	10	5	6	9	5	3	6	85
11	那覇 Naha.	21	26	20	16	15	22	12	15	22	14	17	20	220
12	先島崎原 Sakibarusaki.	20	22	14	13	9	16	10	10	15	10	12	13	164
13	首里 Shuri.	14	5	3?	1?	6	13	3	8	13	6	6	8	86
14	唐名 China.	17	21	12	11	10	14	6	11	8	8	6	12	136
15	平敷屋 Hishicha.	13	19	13	11	8	14	5	6	12	8	8	7	124
16	西原 Nishibara.	4	12	5	3	4	8	4	2	7	7	7	7	70
17	伊江島 Iishima.	—	—	—	—	—	16	11	9	13	13	15	19	—
18	津堅島 Tsukinshima.	—	19	13	11	14	14	6	9	12	14	15	12	—
19	東江 Agarie.	21	24	16	14	11	17	7	14	21	17	15	19	196
20	曾津高崎 Sotsutakasaki.	—	15?	21	15	13	18	7	8	14	13	13	21	—
21	大島 Ōshima.	24	24	20	16	18	19	14	13	23	17	17	26	231
22	屋久島 Yakujima.	18	20	22	15	14	14	9	12	18	9	17	21	189
23	西之表 Nishino-omote.	—	—	—	—	—	—	—	—	—	11	14	6	—

† 室蘭灣　† Gulf of Muroran.

丁第一圖

明治三十年 各月雨量圖（粍）
MONTHLY RAIN CHART in mm 1897

PLATE D.I.

一月
January

二月
February

三月
March

mm 粍　0　0-20　20-50　50-100　100-200　200-300　300-400　400-500　500-600　600-700　700-800　800-900　900-1000　1000

丁第二圖

明治三十年 各月雨量圖（粍）
MONTHLY RAIN CHART in m/m 1897

PLATE D.II.

四月 April

五月 May

六月 June

雨量 0 0~20 20~50 50~100 100~200 200~300 300~400 400~500 500~600 600~700 700~800 800~900 900~1000 1000~

明治二十年

各月雨量圖表
MONTHLY RAIN CHART
in mm
1897

PLATE D.IV.

明治三十年 全年雨量圖

RAIN CHART
in m.m.
for
the year 1897.

明治三十年

全年雨量圖

耗

RAIN CHART

in m.m.
for
the year 1897.

ANNUAL REPORT

OF THE

CENTRAL METEOROLOGICAL OBSERVATORY

OF JAPAN

FOR

THE YEAR 1897.

PART II.

F. OBSERVATIONS ON TERRESTRIAL MAGNETISM AND ATMOSPHERIC ELECTRICITY.

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MAGNETIC OBSERVATIONS

FOR

THE YEAR 1897.

1. MAGNETIC OBSERVATORY.

It is placed within the circle of the Central Meteorological Observatory at the altitude 21m. above the sea-level. Its geographical co-ordinates are

Longitude 139° 45′ E

Latitude 35° 41′ N

The observatory had been established in 1890. It was rebuilt in July, 1897. It is wooden building, of which every precaution was taken to avoid the use of iron-articles, all nails being made of copper. The observation rooms are taken under the ground. There are two rooms, with the stair case running in the N-S direction between them. In the eastern there is set a Mascart's self-registering magnetograph, and in the western the apparatus for the direct reading.

2. ABSOLUTE MEASUREMENT OF MAGNETIC ELEMENTS.

Absolute measurement is made once every month, the horizontal intensity and the dip being generally observed three or four times and the declination in such a number that it is sufficient to obtain a curve of diurnal variation.

The declination and the horizontal intensity are measured by means of the instrument constructed by Prof. Tanakadate, which is described in a paper published in the Proceeding of the Royal Society of Edinburgh (1884-6) and also in the Journal of the college of Science, Imperial University, Japan (Vol. II., Part III.). It will be sufficient here to give a short description which is chiefly the extraction of the papers.

Declination.—The declinometer is built upon a theodolite which in its ordinary form serves for all the astronomical observations. The magnetometer stage resting on tripods is fitted to the centre of the theodolite base, being able to be fixed either to the base of the theodolite or to the Y's by means of a screw projected downward from the centre of the base of the stage. A telescope with a mirror and a lamp are fixed to the stage.

The magnetometer case is set upon the stage and can be levelled by four screws at the upper surface of the stage and centered by other four screws at its vertical sides. The magnet is a small hollow cylinder piercing a mirror centrally perpendicular to its plane. Mirror and magnet are

fastened to an aluminium stem, whose lower end is broadened, so that it may, when necessary, be securely gripped by means of a vice fitted to the lower part of the case. The suspension is made by means of a spider line.

The peculiar feature of the declinometer is a coil of wire, wound on a flat rectangular frame of brass in two separate parts, a certain portion in the middle being left vacant. Two pivots project from the middle of the sides in a direction perpendicular to the axis of the coil. These pivots are hollow, and are made of the same external diameter as those of the telescope belonging to the theodolite. The upper and lower surfaces are pierced so as to allow the magnetometer to project above the coil

To bring the coil into adjustment, it is necessary to operate as follows. Place the stage and magnetometer on the theodolite, and mount the coil with its pivots resting on the Y's. Adjust the Y's into an approximate east and west direction by sighting the freely hanging mirror edge-on through the pivot cores. Lay the coil horizontal, so that the ends of the coil now face north and south. Adjust the centering of the magnetometer and place the small telescope with attached scale and lamp-counterpoise in due position. Clamp the stage and all its bearings to the base of theodolite, thus rendering them quite free of the Y's and consequently the coil being able to be turned round independent of every thing else. The magnetometer stage is adjusted until some convenient division on the scale, as reflected from the magnet mirror, is brought to coincidence with the cross-wire of the observing telescope. Thus all things are prepared.

The coil is now put in circuit with a small dry battery. This is done by communicating it with the resistance box, whose terminals are joined to the poles of the battery and which enables to change the direction of the current. At the first trial the direction of the current should be such as to make the magnetic field due to the current in the coil have the same (general) direction as that of the earth. This is readily judged of by the quickened movement of the magnet. The reflected image of the scale will in general be seen to move. With the current always on, let the azimuth of the coil be shifted until the originally observed reading of the scale is brought back again to the cross wires. Since the magnetometer and telescope have been absolutely fixed in position during the whole operation, this gives to the first approximation the direction of the declination. The current is now reversed. In general, the result of this will be that the image of the zero scale reading will slowly move to one or other side of the cross wire. The resistance in circuit is then adjusted until the current is such as to cause the time of oscillation of the magnet to be some three or four times as long as that under the earth's force alone. The original division of the scale is again brought back to the cross wire by carefully adjusting the azimuth of the coil. If the current is now broken and the scale image does not shift, it is certain that the magnetic axis of the coil lies in the magnetic meridian. The reading on the theodolite gives it azimuth. An exactly similar observation is made with the coil reversed as regards east and west. Next, two such observations must be made in overturning the coil up and down. The mean of the four readings gives the declination at that instant corresponding to the mean of the two instances of the first and the last adjustments, quite independent of any errors resulting from any (slight) deviation from perpendicurality between the axis of the pivots and the line of magnetic force at the centre of the coil due to the current in it and from any deviation of the centre of the coil from that of the magnet. A complete observation usually takes four or five minutes.

Horizontal Intensity.—For the determination of the horizontal intensity, the declinometer must be removed and in its place a deflection bar substituted. The bar is made of brass and has a V-

groove on its upper surface—or rather two V-grooves extending the one to the east and the other to the west, when the instrument is mounted ready for use. Where the bar rests on the Y's, it is made in the form of a semi-cylinder—the upper surface being flat, the lower having the same curvature as the pivots of the theodolite telescope and the declinometer coil. Between the Y's, the bar swells out into an oblate ring, through which the magnetometer projects. A semi-circular groove is cut in front of the ring, so that the magnet mirror can be sighted by the small telescope. On the V-groove of the bar there are four stops two on each side of the centre. The deflection magnet rests in the groove, and the stops are so placed that the two distances of the magnet from the centre are obtained simply by slipping the magnet along the groove from one stop to the other, without having to lift it out. The stops are placed so as to make the ratio of the two distances the best possible, according to the usual rule.

The instrument is obviously available for use either according to the method of sines or the method of tangents. The former method is the preferable one ; and, in using it, it is necessary to clamp the stage to the Y's, and free it from the base of the theodolite. The operations are then conducted exactly as with the Kew instrument. The temperature of the bar is measured by means of two thermometers placed in its opposite sides beyond the further stops. It is advisable to dust with a small brush the surfaces of the magnet and stop just before they are brought together. The chronometer time is taken as the final deflection is adjusted. The beginning of the experiment is given by the first time record in the vibration experiment, which it was found most convenient to make first. The mean of these times is taken as the time corresponding to the value of the horizontal force as finally deduced.

The vibration experiment is made in a vibration box somewhat similar in construction to the one used in the Kew instrument. It is mounted on a second tripod, so that the magnetometer stage need never be removed until the theodolite has to be used for the astronomical observations. The magnet is suspended by two loops of silk from the end of a silk fibre freed from twist in the usual way and its horizontality is well adjusted. A horizontal vibration of about half a degree is given to the magnet, and it is observed by means of a telescope. The observer signals the instant of transit of the middle point of the swing, and these are noted down by the recorder at some distance. The temperature is observed at the biginning and the end of the experiment with a thermometer attached to the inside of the glass window of the box, the mean of two readings being taken as the temperature in the vibration experiment.

For determining the horizontal intensity all the necessary corrections are applied. The torsion and arc correction are applied in the usual way ; the time correction is applied so as to reduce the time-unit at once to the mean solar second ; besides these we may mention the corrections for induction, expansion of steel magnet and of the brass which constitutes V groove on which the magnet is to be placed in the deflection experiment, and the correction for the temperature difference in the vibration and the deflection experiments.

The vibration experiment is usually taken before the deflection experiment From the first recorded swing to the last deflection adjustment the whole experiment generally takes about 20 minutes.

Dip.—The observations of dip are made by means of a dip circle Cassela 17. The magnetization

of the needle is reversed by means of an electro-magnetic coil. A complete observation usually takes 20 minutes.

The astronomical meridian is sometimes determined by observations of circumpolar stars or of the sun. Thus, the azimuth of the top of a tower of a Cathedral Nicoli at a distance of about 1.5 k.m. is often tested. The reading of the meridian is usually reduced from that of the object.

3. PHOTOGRAPHIC RECORDS OF MAGNETIC ELEMENTS.

Photographic records of magnetic elements are made by means of a Mascart's magnetograph. Let us shortly describe the arrangement of the instrument and the method of reduction.

THE ARRANGEMENT OF THE APPARATUS.

Declinometer.—It is contained in a metal case with a tube on its cover. From the upper end of the tube, a magnet with a mirror perpendicular to its direction is freely suspended by means of a fine silk thread. There is a second mirror fixed to the base of the case. Thus, the rays of light falling upon the two mirrors reflect on a photographic paper moving by a clock-work, one tracing the curve of variation of the direction of the magnetic needle and the other the fixed line.

Bifilar.—Its construction is similar to that of declinometer. But, in this case, the magnet with a mirror parallel to its direction is suspended by means of two fine silk threads and put in equilibrium in the direction perpendicular to the magnetic meridian in virtue of the couples due to the horizontal intensity and the torsion. Its sensibility can be adjusted by regulating the distance between the two points of suspension. The light reflected from the mirror traces the variation of the horizontal intensity.

Balance.—It is a magnetic balance with a hole in its central portion. There is, in the hole, a knife-edge, by means of which the magnet rests on an agate plane, and the magnet is placed horizontally by adjusting the position of its centre of gravity by means of a small index attached to it, the couple due to the vertical intensity equilibrating with that due to gravity. The sensibility can be adjusted by means of two weights movable in the horizontal and vertical ones attached to the magnet. The whole is contained in a metal case. There are two horizontal mirrors, one fixed to the case and the other to the magnet. At the central portion of the cover of the case, there is a hole on which an isosceles rectangular prism is placed, the two faces being, put horizontally and vertically. Thus, the light falling upon the vertical face of the prism is refracted towards the mirrors and again reflected and traces the variation of the vertical intensity and the zero line.

METHOD OF REDUCTION.

Declinometer.—By turning the case through a known small angle and measuring the deviation of reflected light from the fixed mirror, we can obtain the angular value for any ordinate of the curve, the effect of torsion being found to be negligible. The value for 1 m. m. was 1′.47.

Bifilar.—Putting α the half sum of the deviations of declinometer, caused by a horizontal magnet in two positions, once N-pole to the east and the next to the west, and n that of deviations of bifilar when the same maget is placed, once its N-pole to the north and then to the south, we have the formula

$$\triangle H = \frac{H \tan \alpha}{n}$$

where $\triangle H$ denotes the variation of the horizontal magnetic intensity H for unit deviation.

Balance.—Putting I the dip, and m the half sum of the deviations of balance, caused by the magnet formerly used, when its N-pole is placed vertically upward and downward, we have the formula

$$\triangle Z = \frac{Z \tan \alpha \cot I}{m}$$

where $\triangle Z$ denotes the variation of the vertical magnetic intensity Z for unit deviation.

Their mean values for 1 m. m. in each month were as follows:—

	△ H (in C.G S. units)	△ Z (in C.G.S. units)		△ H (in C.G.S. units)	△ Z (in C.G S. units)
January	.0000591	.0001330	July.....	.0000691	.0001304
February.....	.0000609	.0001249	August	.0000671	.0001827
March	.0000572	.0000902	September ...	.0000662	.0001268
April	.0000582	.0000820	October	.0000600	.0000977
May...	0000634	.0001332	November ...	.0000605	.0000793
June...	.0000690	.0002390	December ...	.0000604	.0001020

TEMPERATURE COEFFICIENTS OF BIFILAR AND BALANCE.

The temperature of the room where the photographic record is always made can not be constant, the range in a day sometimes amounting to nearly 1° C. Thus, the temperature-coefficients of the bifilar and the balance were determined on June 1, 1898. The method employed was to heat the room by burning the charcoal in suri-bachi (an earthen-ware), the fire being regulated by looking at the self-recording thermo-graph placed in the room, while the observation of the direct-reading system in the other room was made at the same moment when the temperature in the main room was observed. Six suri-bachi were distributed in the room, and the temperature was observed with the thermometers attached to the balance, the bifilar and the thermograph. Three simultaneous readings did not differ more than 0°.4 C, and the range of temperature during the experiment was about 2°. Eliminating the deviation due to the variations of magnetic elements by means of the observation of direct reading system, the following values of coefficients were obtained.

TEMPERATURE COEFFICIENT OF BIFILAR

Time	Temp. diff.	Deviation in m.m.	Deviation in m.m. for 1°.
$9^h\ 18^m$ a	0	0	—
11 08 „	9°.0	42.51	4.73
11 33 „	8.3	42.43	5.11
0 01 p	8.4	41.38	4.93
0 33 p	8.8	42.38	4.82
0 57 „	8.2	41.51	5.07
1 23 „	7.7	39.97	5.16
1 43 „	7.3	38.08	5.29
2 14 „	10.0	43.68	4.37
2 40 „	9.4	45.70	4.88
3 13 „	9.1	45.76	5.03
3 39 „	8.9	45:23	5.08
		mean	4.95

Thus the temperature coefficient in absolute value is

$$4.95 \times .00004183 = .0002073 \text{ C. G. S. units,}$$

.00004183 being the value for 1 m. m. during the experiment.

TEMPERATURE-COEFFICIENT OF BALANCE.

Time	Temp. diff.	Deviationd in m.m.	Deviation in m.m. for 1°.
$9^h\ 18^m$ a	0	0	—
11 08 „	8.6	33.03	3.84
11 33 „	8.4	33.53	3.99
0 01 p	8.3	32.44	3.91
0 33 „	8.6	37.27	4.34
0 57 „	8.4	37.17	4.42
1 23 „	8.1	35.57	4.39
1 43 „	7.6	33.42	4.40
2 14 „	9.9	31.92	3.53
2 40 „	9.3	40.27	4.33
3 13 „	9.1	39.44	4.33
3 39 „	8.9	38.47	4.32
		mean	4.16

Thus the coefficient in absolute value is

$$4.16 \times .00007319 = .0003045 \text{ C. G. S. units,}$$

.00007319 being the value for 1 m m. during the experiment.

4. DIRECT READING SYSTEM.

The system is essentially the same as the self-recording magnetograph. By means of this system, the variations obtained by photographic records are often tested.

5. HARMONIC ANALYSIS OF DIURNAL VARIATION OF MAGNETIC ELEMENTS.

Expressing the mean of hourly values of magnetic elements for every month and the year by means of a formula

$$f(t) = p_0 + p_1 \cos t + q^1 \sin t + p_2 \cos 2t + q_2 \sin 2t + p_3 \cos 3t + q_3 \sin 3t + p_4 \cos 4t + q_4 \sin 4t,$$

the cœfficients p_0, p_1, q_1, p_2, q_2, p_3, q_3, p_4, and q_4 were calculated.

Comparing the calculated and the observed values for the year, the following results were obtained :

	Sum of squares of Residuals
Declination	0.0736
Horizontal Intensity	789.50
Vertical Intensity	339.57

the unit being minute for declination and .000001 C. G. S. units for horizontal and vertical intensities.

OBSERVATIONS

OF

ATMOSPHERIC ELECTRICITY

FOR

THE YEAR 1897.

The electric potential of the atmosphere is measured by means of a Thomson and Mascart's self-recording quadrant electrometer. Let us shortly describe the apparatus.

The electrometer is contained in a metal case, on the cover of which is the tube which supports the bifilar suspension, and it allows three electrodes to pass, which are respectively in connection with the quadrants and the needle. Two of electrodes are connected with the pairs of quadrants, their other ends being put in connection with the two poles of a battery formed of 30 or 50 water cells, as the case may be, the middle of which is to the earth. The third is connected to the needle by means of the glass vessel containing sulphuric acid, in which are immersed, on the one hand, a platinum wire attached to the electrode, and, on the other hand, a prolongation in platinum of the axis of the needle, having two leaves between the quadrants.

Sir William Thomson's water dropping apparatus is used to collect the atmospheric electricity. It is a cylindrical cistern of copper, placed in the room next to that where the photographic record is taken. The cistern rests on three glass pillars covered with brass, each one projecting from the interior of a glass vessel containing sulphuric acid and the mouth of the vessel being sheltered with a brass-cover so as not to touch it. A pipe of about 2 metres in length projects towards the west from the cistern into the atmosphere, and from a very small hole at its extremity (1.7 m. above the ground) the water splashes out and breaks almost immediately into drops. The cistern is thus brought to the same potential as that of the atmosphere, near the extremity, and this potential is communicated to the needle with a mirror through the third electrode above mentioned. Thus, in accordance with the variation of electric potential of the atmosphere, the mirror is turned about, so that the light falling upon the mirror reflects to a photographic paper moving by a clock-work, the fixed line being obtained by the light reflected from the glass window at the front of the electrometer.

Owing to the existence of moisture, the zero point is sometimes changed, and therefore it is recorded two times a day by stopping the water spout and connecting the cistern with the earth. Also, to prevent such an error, the sulphuric acid in the instrument is renewed almost every weak.

The sensibility is measured every week by means of a water battery formed of 50 cells. Its mean value for each month is as follows :—

	Value for 1 m. m. (in Volts)
January	3.45
February	3.86
March	2.97
April	3.13
May	3.23
June	1.73
July	1.36
August...	1.15
September	2.36
October	1.61
November	2.13
December	2.69

Lastly, it is to be noticed that, since the curve of electric potential of the atmosphere is in general of zigzag nature, the potential is measured by drawing the mean curve.

明治三十年
磁氣要素
及
空中電氣
毎時ノ値

時

時ハ中央標準時即チ東經百三十五度ノ子午線ノ平均太陽時ニ據ル

磁氣要素

偏角ハ度分ニテ二分力ハ C. G. S. 單位ニテ測ル

磁氣要素一日中ノ變化ノ性質ハ五種ニ分テリ即チ靜穩(C), 不穩(A), 小變動(S°), 變動(S)及激變動(S²), ニシテ各種ノ例ハ卷末ニ揭ゲタリ

空中電氣

電氣「ポテンシヤル」ハ「ヴオルト」ニテ之ヲ測ル

天氣狀況ハ萬國普通ノ記號ヲ以テ之ヲ顯ハス

× 印ヲ附シタルモノハ日及月ノ平均ニ算入セス之レ雨霧又ハ其他ノ原因ニ依リ空中電氣ノ常態ヲ顯ハスモノニアラザレハナリ

± 印ハ振動非常ニ速カニシテ其時ニ對スル「ポテンシヤル」ノ價正ナルカ負ナルカ判明ニ言フヲ能ハザル如キモノヲ示シ[+]又ハ[−]ハ「ポテンシヤル」ノ餘リ高キカ又ハ低キカニ依リ寫眞紙外ニ出テタル塲合ヲ示ス(但シ數字ノ前ニアル[−]號ハ負ノ意ナリ)

·· 印ハ「ラムプ」光力ノ薄弱時計ノ停止等ノ事情ニ由リ欠測トナリタルヲ示ス

HOURLY VALUES
OF
MAGNETIC ELEMENTS
AND
ATMOSPHERIC ELECTRICITY
FOR
THE YEAR 1897.

Time.—

Time is given in the Central Standard Time (the mean time for the meridian 135° E).

Magnetic Elements.—

Declination is measured in degrees and minutes, and the two intensities in C.G.S. units.

The characters of the diurnal variation of the magnetic elements are devided into 5 classes: Calm (C), Agitated (A), Light storm (S°), Storm (S), and Severe Storm (S²), the specimens of which are given at the end of the volume.

Atmospheric Electricity.—

The electric potential is measured in volts.

Weather conditions are represented by international symbols.

The values with the sign × are omitted in taking daily and monthly means, for they do not indicate the normal electric condition in consequence of rain, mist or some other causes.

The sign ± indicates that the oscillation is so rapid that we can not definitely say whether the potential at the corresponding time is positive or negative, the sign + or − the value either too high or too low to be traced on the photographic paper (but the sign − before a number means "negative").

The sign ·· indicates the want of photographic record, owing to the weakness of the light of lamp, the stopping of Clock, etc.

明治三十年一月

偏角 4° W +

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	29′2	29′3	29′3	29′3	29′5	29′3	28′7	28′0	29′2	29′9	30′2	30′6	30′6	29′5	28′7	28.9	28′4	28′7
2	29.2	28.7	29.0	29.3	31.2	29.3	29.2	28.7	29.2	30.1	30.3	30.6	30.5	30.9	31.2	31.1	32.0	31.1
3	30.6	27.4	29.3	28.9	29.3	32.1	34.6	32.1	32.0	32.4	33 3	32.1	31.2	30.6	29.6	29.2	29.3	30.3
4	30.4	30.4	30.3	30.0	30.0	30.2	29.4	28.0	27.5	38.8	31.0	31.3	30.7	30.2	29.6	29.6	29.1	29.9
5	29.4	29.7	29.1	29.6	29.4	29.6	29.3	28.8	29.0	30.4	32.2	32.5	32.5	31.5	29.6	29.3	29.4	29.6
6	29.6	29.4	29.4	29.6	29.6	29.4	29.4	28.8	29.4	30.2	32.2	32.2	31.0	29.7	28.7	28.7	29.1	29.4
7	29.7	29.2	29.5	29.5	29.5	29.5	28.9	28.1	27.9	29.2	31.7	32.3	32.3	30.5	28.8	28.4	28.9	29.2
8	29.5	29.5	29.2	29.1	29.5	29.5	29.4	28.1	27.6	28.8	30.7	32.0	31.1	29.7	28.6	28.9	28.9	29.1
9	29.1	29.1	29.1	29.4	29.4	29.1	29.2	28.9	29.4	30.8	32.0	32.3	32.0	30.8	29.1	28.2	28.6	29.1
10	29.4	29.4	29.1	29.4	29.4	29.2	28.8	27.9	28.6	29.5	31.0	32.3	31.4	29.8	29.4	28.9	28.9	29.1
11	29.2	28.9	28.7	28.9	29.2	29.5	29.2	28.3	29.7	28.5	33.3	33.5	33.3	32.1	30.1	28.7	28.7	29.0
12	30.4	30.2	29.9	29.9	29.9	29.8	29.5	28.9	29.0	30.2	32.1	33.1	32.7	31.1	30.5	29.6	29.8	29.5
13	30.0	30.5	29.6	29.9	29.6	29.6	28.6	27.8	27.3	28.3	31.2	33.4	33.1	32.2	31.0	29.9	29.9	29.6
14	29.7	29.7	29.7	29.6	29.6	29.0	29.7	28.8	28.0	28.8	31.8	33.7	33.5	32.5	31.0	29.7	29.7	29.6
15	29.7	29.3	29.6	29.6	29 7	29.6	29.0	27.7	27.5	28.3	29.6	31.8	32.5	32.5	30.9	31.2	30.0	29.1
16	29.8	30.0	30.3	30.1	30.0	29.7	29.5	28.7	28.4	...	30.6	31.7	31.9	30.7	30.0	29.1	29.2	29.1
17	29.8	29.8	30.1	30.0	30.6	29.8	30.0	28.5	27.8	28.1	30.6	31.7	31.9	31.6	30.0	29.5	29.4	29.4
18	30.0	30.1	30.0	30.0	30.0	30.3	30.0	28.8	28.5	29.2	30.3	30.6	31.1	30.8	29.8	29.7	29.7	29.7
19	29.8	29.6	29.6	29.6	29.8	30.1	29.8	29.2	29.0	29.5	31.0	31.7	31.7	30.2	29.5	29.0	29.3	29.5
20	29.9	29.8	29 6	29.6	29.6	29.6	29.3	28.3	28.3	28.2	29.3	30.3	30.9	30.1	29.5	29.2	29.6	29.6
21	29.9	29.8	29.6	29.5	29.5	29.4	28.9	28.0	28.0	29.3	31.8	32.7	32.7	31.3	29.9	29.1	29.3	29.6
22	29.7	29.7	29.7	29.7	29.7	29.6	28.6	27.8	27.8	28.7	30.0	30.9	30.8	30.3	29.4	28.9	29.4	29.4
23	29.4	29.4	29.3	29.3	29.3	29.0	28.7	27.1	27.1	28.3	29.9	31.3	31.8	31.3	30.2	28.7	28.6	29.0
24	29.1	29.1	29.1	29.3	29.6	29.4	28.7	27.7	28.1	29.0	29.9	30.6	30.8	31.2	30.6	29.4	29.4	29.9
25	29.4	29.1	29.2	29.1	29.4	29.5	29.0	29.7	28.8	29.1	31.0	32.6	32.5	31.6	30.9	29.8	29.5	29.8
26	28.9	29.0	28.7	29.3	28.7	29.6	29.7	28.4	28.7	29.9	31.0	31.2	31.0	30.9	30.3	20.7	29.4	29.6
27	29.5	29.6	29.6	29.5	29.5	29.6	29.2	28.2	28.5	30.1	32.7	34.3	34.3	33.0	31.4	29.9	29.2	29.3
28	29.4	28.9	28.5	28.9	28.9	28.9	28.5	28.7	28.5	28.1	29.7	30.8	31.0	31.3	30.4	29.8	29.5	29.2
29	28.7	29.0	28.0	28.3	29.4	29.6	29.7	28.1	28.0	29.7	30.5	31.2	31.3	31.3	30.2	29.3	29.3	29.3
30	28.1	28.9	29.1	29.1	29.4	29.1	29.2	28.5	27.5	26.5	27.3	28.2	29.2	29.7	30.0	29.8	29.1	29.2
31	29.0	29.0	28.4	28.1	29.0	29.7	29.7	28.6	27.7	27.5	27.7	29.1	30.7	30.9	30.4	29.7	29.4	29.4
平均 Mean	29.53	29.40	29.34	29.40	29.59	29.60	29.40	28.49	28.45	29.18	30.84	31.70	31.68	30.96	29.98	29.38	29.35	29.46

水平磁力 0.29……+

1	808	809	808	808	808	808	811	807	796	793	794	791	793	806	808	803	808	809
2	809	818	814	821	810	806	820	810	787	781	778	771	771	758	738	735	721	717
3	693	708	799	715	730	726	721	730	734	739	748	754	757	755	751	744	743	733
4	748	752	760	760	762	765	774	779	770	765	768	771	771	768	763	760	760	759
5	767	771	767	768	773	774	777	771	767	769	778	775	779	781	783	777	776	771
6	776	778	777	778	779	781	783	784	775	772	776	787	790	790	789	781	781	781
7	781	782	784	784	787	788	791	787	778	774	783	787	800	807	809	803	797	794
8	793	795	797	799	798	796	802	801	796	795	807	808	809	809	809	806	812	...
9	779	780	783	789	794	798	792	789	773	764	774	792	801	809	810	807	803	801
10	798	800	801	802	804	803	801	798	788	789	800	807	...	...	...	810	805	805
11	806	817	818	816	814	815	818	808	801	796	792	799	805	817	822	822	820	815
12	778	783	780	782	789	790	788	783	771	763	771	782	783	792	799	803	799	798
13	781	781	797	789	788	797	796	791	776	762	756	758	772	777	785	791	797	798
14	788	786	783	785	783	793	791	803	789	773	766	774	782	790	793	795	795	795
15	794	796	797	802	807	808	812	797	778	770	774	774	773	774	778	774	771	773
16	791	791	794	795	796	799	801	802	791	773	766	775	781	792	790	792	795	795
17	...	798	797	796	799	799	799	806	793	782	783	789	790	783	781	786	783	781
18	791	787	791	792	796	797	797	794	784	768	771	785	791	798	803	795	793	790
19	798	797	797	797	799	802	807	805	793	785	794	802	807	...	...	805	802	799
20	796	796	799	800	801	804	804	800	789	777	777	784	...	...	815	813	807	806
21	806	808	810	810	811	811	811	805	788	779	794	803	810	816	818	818	814	811
22	811	812	814	814	815	815	816	816	791	791	793	803	812	821	823	822	815	815
23	815	813	815	814	813	814	820	815	802	791	789	804	812	816	823	826	825	821
24	803	807	809	807	810	812	807	794	781	781	779	783	790	801	814	819	812	8 7
25	802	799	803	803	800	798	803	802	793	780	782	788	796	802	809	810	811	804
26	805	805	809	806	811	809	804	799	779	769	775	779	783	793	804	808	808	806
27	805	805	807	810	810	811	811	810	797	784	790	801	813	813	819	826	822	812
28	801	798	804	809	812	813	813	809	801	794	796	800	807	808	813	812	815	814
29	812	813	834	828	845	846	854	868	845	823	825	851	849	842	843	842	833	828
30	789	786	797	808	811	819	825	834	812	844	836	830	833	831	830	831	834	820
31	826	814	819	817	819	821	831	836	838	834	830	827	831	833	829	823	800	795
平均 Mean	7917	7930	7959	7969	7992	8006	80 6	8007	7900	7826	7853	7914	7964	7994	8018	8013	7986	7951

JANUARY 1897.

MAGNETIC DECLINATION.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
28′.6	28′.4	28′.3	28′.7	29′.0	28′.4	29′.11	30′.6	0 30 p	28′.0	8 00 a	2′.6	A 7. p.–
32.5	29.3	28.7	28.4	29.6	27.4	29.90	33.3	0 45 p	27.4	M. N.	5.9	S° , S towards night
30.5	30.2	28.6	29.5	29.3	32.1	30.60	34.6	6 40 a	26.0	1 30 a	8.6	S
29.3	29.7	30.2	30.0	30.2	30.0	29.82	31.3	Noon	27.5	9 00 a	3.8	C
29.7	29.1	30.2	30.0	30.0	29.9	29.99	32.5	Noon	28.8	8 00 a	3.7	C
29.4	29.6	29.4	30.0	30.0	29.9	29.75	32.2	11 30 a	28.8	8 00 a	3.4	C
29.5	29.5	29.5	29.7	29.7	29.7	29.61	32.3	11 30 a	27.9	9 00 a	4.4	C
29.2	29.1	29.2	29.8	29.7	29.8	29.42	32.0	Noon	27.6	9 00 a	4.4	C
29.1	29.1	29.2	29.2	29.4	29.4	29.62	32.3	11 30 a	28.2	4 00 p	4.1	C
29.2	29.1	29.1	29.4	29.4	29.1	29.45	32.4	Noon	27.7	8 25 a	4.7	C
29.5	31.1	32.0	30.6	29.5	30.2	30.07	33.6	Noon	27.7	9 00 a	5.9	S°
29.2	29.2	29.2	29.3	29.0	29.8	30.07	33.4	0 15 p	28.5	8 30 a	4.9	A morning, C afternoon.
29.3	29.3	29.3	29.4	30.0	29.7	29.94	33.5	0 30 p	27.2	9 00 a	6.3	A
29.7	29.6	29.3	29.1	29.1	29.6	30.02	33.8	0 35 p	28.0	9 00 a	5.8	C
29.9	29.7	29.9	29.9	29.9	30.0	29.87	32.5	1 20 p	27.4	9 30 a	5.1	A
29.4	29.4	29.5	29.8	29.4	29.8	29.83	32.0	0 40 p	28.4	9 00 a	3.6	C
30.1	29.5	30.3	30.0	30.0	30.1	29.94	32.2	0 35 p	27.8	9 00 a	4.4	A night
29.8	29.8	29.8	29.7	29.8	29.8	29.89	31.4	1 25 p	28.2	8 37 a	3.2	C
29.9	29.6	30.1	30.1	29.8	29.8	29.88	32.3	0 20 p	28.5	7 36 p	3.8	C
29.8	29.6	29.8	29.9	29.9	29.9	29.57	30.9	1 00 p	28.2	10 00 a	2 7	C
29.8	29.8	29.8	29.8	29.9	29.8	29.88	32.8	0 25 p	28.0	8 40 a	4.8	C
29.6	29.4	29.6	29.4	29.6	29.6	29.47	30.9	Noon	27.7	8 30 a	3.2	C
29.3	29.6	29.4	29.9	29.7	29.3	29.37	32.1	0 40 p	27.0	8 30 a	5.1	C
29.9	30.3	29.9	29.9	29.7	29.4	29.58	31.2	2 00 p	27.7	8 00 a	3.5	C
30.1	30.1	30.3	30.3	29.7	29.4	30.00	32.6	Noon	28.7	8 00 a	3.9	C
29.9	29.7	29.9	29.9	29.9	29.9	29.72	31.2	Noon	28.4	8 00 a	2.8	C
29.3	29.3	29.3	29.1	29.1	29.0	30.10	34.5	0 35 p	28.2	8 00 a	6.3	C
29.4	29.4	29.5	29.2	29.1	29.1	29.36	33.9	2 00 p	26.9	8 45 a	7.0	C
29.0	29.0	29.6	27.3	28.7	28.0	29.27	31.5	0 40 p	26.4	9 36 p	5 1	S°
29.2	28.4	29.1	29.1	28.9	29.1	28.82	30.0	3 00 p	26.5	10 00 a	3.5	S° , A afternoon
29.9	28.0	29.4	29.1	28.5	28.8	29.07	30.9	2 00 p	26.7	10 30 p	4.2	A , S° night
29.64	29.45	29.59	29.53	29.53	29.54	29.71	32.28		27.74		4 54	

HORIZONTAL MAGNETIC INTENSITY.

814	823	823	822	806	815	8073	833	7 30 p	791	Noon	.0842	S° 7. P.–
700	714	735	664	661	661	7583	821	3 40 a	659	11 50 p	162	S°, S towards night
730	732	730	716	724	768	7329	772	11 50 p	662	0 00 a	110	S
754	755	762	765	768	768	7636	779	8 00 a	748	1 00 a	31	C
767	775	773	775	776	778	7737	783	3 00 p	767	3 00 a	16	C
779	777	777	777	777	781	7802	790	2 00 p	772	10 00 a	18	C
793	791	790	788	789	791	7899	809	3 00 p	772	9 45 a	37	C
803	801	798	791	788	782	7998	812	5 00 p	782	M.N.	30	A afternoon
799	799	799	798	800	802	7932	810	3 00 p	764	10 00 a	46	C
804	804	803	804	804	807	8020	810	4 00 p	788	9 00 a	22	C
810	792	769	780	769	769	8037	826	3 25 p	762	9 25 p	64	S°
799	797	797	795	795	790	7878	803	4 00 p	763	10 00 a	40	A
797	797	796	793	790	792	7857	803	5 40 a	756	11 00 a	47	A morning, C afternoon
794	794	798	797	798	798	7893	803	8 00 a	766	11 00 a	37	C
780	789	786	785	787	790	7862	812	7 00 a	762	5 40 p	50	A
795	794	792	791	800	795	7911	802	8 00 a	766	11 00 a	36	C
776	786	775	783	788	787	7887	808	8 15 a	771	6 50 p	37	A night
793	794	795	797	798	797	7915	803	3 00 p	764	10 40 a	39	C
795	802	798	796	805	803	7985	...	...	...	...	...	C
806	809	808	807	807	807	8005	...	...	...	...	...	C
810	810	810	810	811	813	8078	818	3 00 p	779	11 00 a	39	C
816	817	817	816	815	817	8120	823	3 00 p	789	9 30 a	34	C
818	814	813	807	802	808	8121	827	4 15 p	789	10 45 a	38	C
802	796	800	802	804	805	8010	819	4 00 p	779	11 00 a	40	C
803	798	798	793	797	797	7988	815	4 25 p	780	10 00 a	35	C
803	804	803	804	804	805	7990	812	5 15 a	769	10 00 a	43	C
808	808	809	812	809	808	8083	826	4 00 p	782	10 35 p	44	A night
813	811	810	813	814	813	8080	817	5 20 p	794	10 00 a	23	C
826	829	809	808	800	799	8313	869	8 15 p	796	11 40 p	73	S°
820	820	812	823	827	826	8220	848	10 15 a	782	1 14 a	66	S° , A afternoon
782	784	789	795	789	797	8150	841	8 33 a	774	7 40 p	67	A , S° night
7932	7941	7927	7905	7904	7925	7948	8136		7665		.0471	

明治三十年一月

日	午前 A. M.											正午	午後					
Day.	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6

鉛直磁力 0.34.....+

1	354	354	354	354	353	355	355	346	339	344	347	347	355	358	355	349	353	355
2	355	357	355	359	354	345	359	355	344	346	346	346	345	346	341	345	344	346
3	366	364	364	364	367	367	364	366	358	356	361	368	367	359	354	351	353	354
4	364	364	367	364	366	368	371	366	354	349	357	358	357	357	353	352	354	358
5	353	356	353	355	357	360	357	346	341	341	344	347	350	353	356	350	350	351
6	349	349	349	349	349	349	351	347	338	338	338	350	350	350	347	341	343	340
7	342	342	342	345	345	344	345	340	332	327	339	348	355	355	350	342	341	344
8	345	346	345	346	345	345	350	348	340	337	344	351	354	351	341	340	344	344
9	340	341	341	343	347	345	344	344	333	333	344	353	360	360	352	341	343	343
10	346	342	346	342	346	346	343	342	333	338	343	353	357	356	349	342	342	343
11	346	348	345	348	350	352	348	341	339	338	338	348	353	357	355	350	345	342
12	346	348	345	350	350	346	346	342	333	334	345	352	352	353	356	356	352	352
13	349	351	355	349	350	354	352	349	337	331	330	340	351	355	357	356	355	354
14	351	351	351	353	351	355	355	361	345	329	...	..	...	...	...	...	...	...
15	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	....	..	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	354	348	353
19	357	356	352	352	353	358	358	353	347	342	347	351	359	359	359	353	353	352
20	350	350	351	351	352	355	353	348	343	342	342	345	351	352	353	378	378	383
21	376	379	380	382	380	383	383	376	370	370	376	389	392	393	393	389	383	385
22	378	379	379	381	381	381	385	375	365	366	368	369	384	387	385	381	379	382
23	374	378	381	379	385	382	389	376	361	358	361	374	382	388	388	387	384	382
24	375	378	380	378	380	381	384	373	371	373	373	374	380	387	388	388	383	381
25	379	377	379	379	374	382	382	382	377	373	374	386	386	387	392	387	386	383
26	388	386	387	386	387	387	387	386	375	374	383	388	393	390	390	390	388	388
27	389	389	389	389	389	390	388	377	372	367	375	393	395	390	390	395	389	385
28	387	387	390	390	379	390	390	379	374	370	378	384	389	389	391	390	389	387
29	387	385	394	388	393	388	391	392	374	364	375	391	387	388	385	384	378	378
30	379	378	386	391	393	392	391	392	375	375	373	372	382	382	382	388	389	385
31	389	385	386	386	389	393	396	394	390	396	394	380	389	395	395	394	389	390
平均 Mean	3635	3637	3647	3649	3653	3664	3673	3628	3541	3523	3575	3637	3683	3691	3676	3657	3643	3667

空中電氣

1	181	123	76	86	93	89	178	387	196	125	54	49	42	14	30	35	46	49
2	49	41	42	49	57	35	53	62	39	−8	−5	11	26	34	24	39	32	56
3	166	97	93	86	180	246	316	450	259	180	118	94	137	118	102	104	226	185
4	99	158	151	134	231	165	203	205	204	129	99	89	36	31	31	49	56	58
5	57	67	60	84	116	203	241	189	114	64	51	50	63	64	56	35	85	57
6	54	95	97	46	37	95	−61*	32	145	122	73	68	77	79	69	73	57	79
7	100	82	80	71	83	113	81	49	45	39	−10*	16	45	25	18	9	41	68
8	112	128	156	147	156	198	220	269	262	191	118	83	72	57	67	83	105	134
9	47*	53*	78*	69*	70*	±	±	±	±	±	±	±	±	±	±	±	129*	63*
10	71	83	98	102	169	203	230	270	199	153	98	135	75	71	91	120	157	147
11	88	51	42	42	60	91	130	142	103	63	57	51	36	31	35	42	78	91
12	83*	71*	56*	64*	49*	19*	±	±	±	±	±	±	44*	50*	42*	53*	80*	113*
13	172*	154*	111*	128*	151*	143*	157*	129*	106*	95*	87*	84*	+	+	+	+	±	+
14	±	±	±	±	±	±	±	+	+	+	-	−	−8*	7*	10*	11*	8*	15*
15	36*	50*	36*	35*	21*	−50*	−20*	3*	8*	0*	−3*	0*	8*	8*	11*	15*	26*	35*
16	15	23	26	26	23	18	54	55	41	42	...	30	41	41	33	33	41	125
17	71	60	57	73	87	110	134	151	118	85	77	68	59	31	6	3	3	2
18	0*	0*	−16*	−1*	3*	−17*	−8*	−14*	−3*	−14*	−22*	−8*	...	...	...	...	−8*	−8*
19	−8*	−8*	−13*	−8*	−8*	−8*	−9*	−7*	−8*	−8*	−8*	...	−7*	−7*	−8*	−8*	−8*	−12*
20	...	...	...	...	...	...	..	3*	1*	−5*	−7*	...	−5*	−5*	−8*	−8*	−5*	−3*
21	5	6	3	6	8	9	11	6	4	4	3	3	10	11	8	8	12	12
22	11*	9*	10*	10*	14*	19*	17*	19*	22*	14*	5*	5*	...	...	...	±	±	±
23	74	80	68	55	80	112	200	260	188	133	80	32	62	40	36	38	40	48
24	86	76	73	80	99	126	164	228	188	128	100	72	74	73	73	68	72	124
25	108	108	111	120	128	172	209	290	141	92	36	22	32	34	40	52	65	84
26	112	96	81	70	72	80	110	91	84	84	84	100	76	58	80	116	72	80
27	176	160	145	146	163	196	216	200	156	140	106	73	70	50	44	53	72	87
28	80	68	51	46	66	92	107	108	96	85	68	57	62	57	62	76	92	114
29	162	144	119	118	150	158	153	158	122	80	40	14	14	30	45	58	68	69
30	43	32	7	22	42	62	95	108	96	9	28	20	36	19	26	44	42	67
31	88	105	118	126	124	134	134	133	116	100	70	74	68	68	70	74	88	80
平均 Mean	90.8	85.6	79.7	78.9	101.1	123.0	154.0	170.5	132.5	92.8	67.7	55.0	56.0	47.1	47.5	55.1	70.5	82.5

JANUARY 1897.

VERTICAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
356	359	356	355	349	356	3524	364	7 25 p	339	9 00 a	0s 25	S° 7 p.-
348	360	370	333	318	348	3498	377	9 12 p	340	3 17 p	37	S°, S towards night
356	361	361	356	362	388	3620	390	11 56 p	351	4 00 p	39	S
357	358	361	361	359	358	3597	372	7 00 a	352	4 00 p	20	C
351	352	353	353	353	350	3513	360	6 00 a	341	9 00 a	19	C
345	345	345	345	345	345	3457	351	7 00 a	340	6 00 p	11	C
345	345	345	345	345	344	3436	355	1 12 p	327	10 00 a	28	C
344	345	344	342	344	341	3448	354	1 00 p	337	10 00 a	17	C
343	344	344	347	349	344	3449	360	1 00 p	331	9 26 a	29	C
346	347	348	348	348	347	3455	357	1 00 p	333	9 00 a	24	C
343	342	334	346	339	341	3453	357	2 00 p	331	10 25 a	26	S°
352	352	352	352	353	352	3488	356	3 40 p	333	9 00 a	23	A
355	352	354	352	354	354	3498	357	2 35 a	330	11 00 a	27	A morning, C afternoon
...	...	...	...	...	...	3502	...	...	...	...	...	C
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
356	357	358	357	357	353	3548	...	...	...	...	...	C
352	356	354	353	356	354	3536	361	1 20 p	342	10 00 a	19	C
383	386	383	383	383	378	3614	386	8 00 p	342	10 30 a	44	C
383	386	388	385	386	383	3829	393	3 00 p	370	9 30 a	23	C
382	387	387	385	381	381	3795	387	2 00 p	365	9 00 a	22	C
379	382	382	379	378	381	3787	389	7 00 a	358	10 00 a	31	C
383	380	383	383	383	386	3802	388	3 30 p	371	9 00 a	17	C
383	385	385	383	386	385	3822	392	3 00 p	373	10 00 a	19	C
388	388	388	388	388	387	3867	393	1 00 p	374	10 00 a	19	A afternoon
385	388	389	390	389	389	3867	395	4 00 p	367	10 28 a	28	C
387	386	386	387	387	386	3855	391	3 00 p	370	10 00 a	21	C
378	379	377	377	378	378	3828	398	2 23 a	364	10 00 a	34	S°
385	385	385	391	393	388	3847	393	11 00 p	372	Noon	21	S°, A afternoon
387	389	394	397	393	396	3911	397	10 00 p	380	Noon	17	A
3649	3665	3669	3657	3661	3664	3641	3759		3513		0s 246	

ATMOSPHERIC ELECTRICITY.

43	40	46	53	51	66	89.7	428	h m 8 20 a	-12	h m 2 00 p	440	
57	83	93	102	110	222	54.3	263	11 30 p	-91	9 50 a	354	
156	187	221	189	187	119	175.7	>450	8 00 a	64	0 20 p	>386	
56	58	67	81	63	42	104.0	299	5 18 a	14	2 40 p	285	
79	106	71	23	40	33	83.7	268	6 48 a	8	9 48 p	290	
90	85	88	111	181	128	86.1	230	11 13 p	-35	7 00 a	315	●° 5.50 a–7.25a
46	42	68	104	123	105	63.2	159	0 18 a	-253	11 23 a	412	◑° 9.30 a–1.25p., 1.50–4.35 p.
89	119	118	86	54	52	128.2	306	8 13 a	32	2 00 p	274	[4.35 p–●° 4.50 p–M N
-25*	2*	10*	-22*	56*	75*	...	...	–	...	–	...	●° 4.00 a–● 7.00 a–●✳° 9.40 a–✳ 10.25 a–✳°–
193	193	261	196	230	161	155.2	295	7 55 a	58	0 30 a	237	●°–1.35 a
139	133	115	66	54	63	75.1	181	8 10 p	27	2 00 p	154	
139*	166*	181*	175*	141*	135*	...	...	...	...	...	...	✳° 5.50 a–7.55 a ✳ 11.00 a–2.30 p
–	–	–	±	±	±	...	...	...	...	...	...	◑° 4.55 p–✳° 9.15 p–✳ 11.10 p– [9.50p–
31*	37*	40*	38*	37*	21*	...	...	...	...	...	...	–✳–✳° ● 11.50 a–✳° ●°–●° 2.30 p–4.20 p
48*	35*	33*	36*	31*	18*	...	59	1 43 a	-37	5 50 a	126	●° ●°–● 2.40 a–●° 7 10 a–4.50 p ●° 11.55 p–
66	88	74	78	82	78	49.3	136	6 00 p	-16	5 42 a	152	–●°$_8$0.05 a
3	1	0	0	0	0	50.0	162	7 35 a	0	M N p	162	
-7*	-8*	-8*	-7*	-8*	-8*	...	30	9 00 a	-114	10 55 a	144	●° 2.50 a–3.15 a ●° 5.30 a–● 1.35 p–●° 4.15p–
-8*	-6*	-8*	-7*	-7*	-7*	...	0	6 00 p	-27	5 41 p	27	4.25 p ✳° 4.00 a–●° 5.40 a–△° 6.40 a–11.15 a
0*	0*	3*	3*	3*	2*	...	6	8 10 a	-10	4 00 p	16	
12	14	13	10	9	10	8.2	19	8 20 p	0	9 25 a	19	
±	80*	100*	116*	116*	76*	...	>530	7 00 p	-164	6 50 p	>694	●° 4.00 p– 4.05 p
61	69	81	97	92	87	88.0	300	7 47 a	20	0 15 p	280	
112	90	85	85	93	102	103.0	246	8 16 a	40	4 38 p	206	
94	104	106	102	116	124	100.0	240	6 43 a	-32	11 25 a	272	
142	170	220	284	273	220	119.0	344	10 05 p	54	4 36 p	290	
82	128	164	128	95	88	122.4	280	0 15 a	38	2 55 p	242	
158	200	234	226	166	185	106.5	320	8 42 p	20	3 10 a	300	●° 0.25a ●° 2.50 a–5.15 a
60	42	30	39	47	48	82.0	186	8 00 a	0	0 15 p	186	
114	140	118	87	74	72	58.5	232	8 00 p	-8	2 32 p	240	
-16*	-22*	-160*	-9*	36*	38*	98.3	148	6 45 a	-320	9 25 p	468	●° 5.05 p–11.45 p–
88.2	99.9	108.2	102.2	101.9	95.5	91.1						

明治三十年二月

偏角 4°W+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	28′9	28′3	28′3	39′0	29′0	29′0	29′3	29′0	27′9	27′3	27′4	28′7	29′2	29′0	29′0	28′9	28′7	28′7
2	28.9	28.9	29.1	28.5	28.6	28.9	29.2	28.6	27.9	27.8	29.2	30.8	30.5	29.7	29.2	28.9	28.6	28.8
3	28.8	28.7	28.7	28.7	28.5	28.7	28.5	27.4	27.2	27.5	28.4	29.9	30.8	29.9	28.7	28.0	27.7	28.1
4	28.7	27.8	28.7	28.1	27.7	30.0	29.3	29.0	28.8	28.7	30.4	31.9	32.0	31.0	30.7	29.0	30.4	30.6
5	28.1	28.6	28.4	29.8	28.6	28.7	29.3	28.7	28.4	28.9	29.3	30.5	30.5	30.0	28.9	28.0	28.9	29.2
6	28.6	28.5	28.8	28.6	28.6	29.4	28.6	27.3	27.2	28.0	29.3	30.5	31.0	30.2	29.8	28.9	28.8	29.8
7	28.4	28.4	28.4	28.4	28.5	28.7	28.1	27.2	26.9	27.5	28.5	30.0	30.6	30.9	30.4	29.6	29.4	29.6
8	27.4	27.6	26.8	26.8	27.1	27.7	29.2	28.4	28.9	29.3	29.3	28.9	29.7	30.0	29.7	29.0	28.4	38.3
9	28.5	28.3	28.3	28.3	28.5	28.6	28.6	27.6	26.7	27.0	29.2	29.9	31.4	32.1	31.4	29.8	28.9	28.2
10	27.8	27.8	27.3	27.3	27.8	28.4	28.5	27.0	25.5	24.0	24.9	28.1	28.9	29.6	29.3	28.4	27.4	27.5
11	27.9	27.7	28.2	28.3	29.9	28.2	28.6	27.7	26.7	26.9	27.2	29.2	30.1	29.9	29.6	29.1	28.0	28.0
12	27.8	27.8	27.9	27.9	27.8	28.1	27.9	27.1	25.6	25.0	26.0	27.9	29.4	29.1	28.4	28 8	28.1	27.8
13	27.8	27.5	27.8	27.8	28.0	28.1	28.1	27.7	26.5	26.2	27.1	38.3	29.4	29.6	29.3	28.1	27.4	27.4
14	27.6	27.6	27.3	27.7	28.0	28.9	29.2	27.6	26.4	25.7	27.1	29.3	30.5	30.8	29.5	28.1	28.9	25.6
15	27.6	27.8	28.9	28.2	29.2	27.6	27.6	26.8	25.7	26.6	27.0	27.6	28.5	28.2	27.9	28.2	27.6	28.1
16	27.2	26.9	27.7	27.5	27.5	27.7	27.5	27.4	27.2	26.7	27.8	28.0	28.1	27.8	27.8	27.8	27.8	27.8
17	27.1	27.3	27.4	27.4	27.6	27.6	27.4	26.1	25.0	26.3	26.1	27.1	27.4	27.7	27.6	27.6	27.4	27.6
18	27.3	27.3	27.3	27.5	27.5	27.7	27.5	26.5	26.0	26.2	27.6	28.6	29.1	28.8	27.9	27.3	27.2	27.5
19	27.2	27.4	27.2	27.4	27.1	27.2	26.9	25.6	24.3	24.2	25.2	27.4	28.8	29.1	28 0	27.1	27.1	27.2
20	27.0	26.9	26.9	26.9	26.9	26.9	…	…	26.4	28.2	29.8	31.1	31.2	30.8	30.2	29.0	28.2	28.6
21	28.8	28.8	28.8	28.6	28.5	28.2	27.8	26.7	24.7	27.6	29.7	31.5	32.4	32.6	29.8	29.2	29.2	29.4
22	29.1	28.8	28.8	28.7	28.5	28.4	27.1	26.5	26.5	26.9	28.5	30.3	31.2	31.3	30.2	29.3	28.7	28.7
23	28.4	28.4	28.3	28.2	28.0	28.2	27.9	27.1	26.8	28.3	29.9	31.7	31.2	31.1	30 3	29.6	28.9	29.6
24	28.0	28.5	28.5	28.2	28.2	28.3	27.6	26.3	24.5	26.9	31.0	32.0	32.4	31.1	30.4	28.9	28.3	28.3
25	28.4	28.0	27.9	28.0	28.0	27.9	27.1	26.4	25.7	25.8	28.1	29.4	30.5	30.2	29.3	28.0	27.7	28.1
26	29.0	26.1	26.2	24.8	25.4	25.4	25.6	26.0	25.6	25.4	27.9	…	…	…	…	…	…	28.5
27	29.8	29.7	30.2	29.7	29.7	29.2	31.3	29.9	29.7	29.1	30.4	31.1	31.1	30.2	3.01	30.1	30.1	30.8
28	29.9	28.3	29.8	31.1	31.1	31.6	32.4	28.3	27.0	27.6	30 5	31.0	32.4	32.6	31.7	29.7	29.5	29.2
平均 Mean	28.21	27.99	28.16	28.12	28.21	28.33	28.37	27.40	26.63	26.99	28.31	29.66	30.30	30.12	29.45	28.67	28.42	28·46

水平磁力 0.29……+

1	811	801	800	804	808	813	818	826	828	824	828	826	831	826	812	811	810	804
2	806	806	811	814	811	809	810	813	811	814	818	816	827	829	824	814	808	802
3	802	804	806	807	808	811	815	813	809	…	802	804	810	819	826	825	822	818
4	774	791	785	765	782	783	815	814	814	820	804	787	784	784	774	780	773	757
5	771	775	784	783	782	783	787	783	777	771	777	790	792	796	796	796	790	782
6	789	789	794	794	795	794	803	806	799	787	795	812	815	816	814	814	804	790
7	810	810	806	806	806	806	800	794	790	788	789	789	792	797	799	803	800	796
8	785	791	798	807	798	799	804	812	817	817	812	810	811	806	807	809	809	805
9	809	808	806	808	815	812	815	812	802	797	789	781	783	793	817	814	814	814
10	812	813	818	820	827	824	829	834	834	832	811	807	807	805	812	823	824	822
11	816	810	818	817	828	828	826	832	828	816	798	795	793	798	804	807	810	811
12	816	823	825	822	825	825	830	833	833	831	821	819	822	822	823	819	822	821
13	826	827	820	821	821	825	829	829	827	825	819	813	817	814	818	823	825	821
14	819	820	825	822	826	824	825	820	820	813	797	797	791	782	777	799	796	798
15	812	808	813	814	811	813	813	814	813	810	810	810	802	799	801	804	803	798
16	814	810	808	806	809	812	816	813	815	821	816	814	807	800	803	804	803	804
17	817	813	813	810	814	818	826	830	833	831	824	816	816	821	815	813	813	809
18	807	807	809	807	812	815	823	826	826	823	820	815	815	820	821	821	818	815
19	819	819	819	819	819	820	825	835	844	841	836	825	829	825	825	826	825	824
20	826	828	829	829	830	…	…	…	…	…	…	…	…	…	…	…	…	…
21	…	…	…	…	…	…	…	…	…	…	…	846	831	823	827	822	816	813
22	820	820	820	819	822	823	821	816	811	807	802	798	805	809	815	822	822	818
23	816	818	822	819	814	814	808	800	795	786	786	784	796	805	816	816	809	794
24	813	805	807	807	807	809	820	824	824	809	796	798	809	818	821	821	820	818
25	803	799	804	811	814	812	815	814	807	796	790	793	798	808	818	817	818	817
26	810	847	838	838	839	847	836	831	826	817	800	…	…	…	…	…	…	…
27	…	…	…	…	…	…	…	…	…	…	…	772	782	791	793	790	779	768
28	796	785	786	788	791	789	795	799	796	792	774	781	785	781	779	789	796	804
平均 Mean	8077	8087	8102	8099	8121	8123	8162	8169	8152	8112	8046	8038	8058	8072	8091	8108	808	8047

FEBRUARY 1897.

MAGNETIC DECLINATION.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
29′.0	29′.3	29′.3	29′.0	29′.3	29′.0	28′.80	29′.5	9 10 p	27′.1	10 25 a	2′.4	A
28.9	29.2	29.2	29.2	28.8	29.1	29.02	30.8	Noon	27.8	10 00 a	3.0	C
29.1	30.1	27.2	29.6	27.1	28.4	28.57	30.9	1 00 p	26.8	11 09 p	4.1	C, A night
29.0	29.3	29.3	27.5	28.0	28.4	29.35	31.2	1 15 p	27.2	9 53 p	4.0	S°
29.5	29.0	29.0	29.0	28.0	28.7	29.00	30.5	1 00 p	27.7	2 42 a	2.8	A morning, C
29.5	28.8	28.8	28.5	28.6	28,3	28.93	30.8	0 45 p	27.2	9 00 a	3.6	C
29.4	29.8	29.3	29.0	28.5	27.9	28.89	31.0	2 18 p	26.9	9 00 a	4.1	C
28.6	28.6	28.6	28.4	28.3	28.4	28.47	29.7	3 00 p	26.7	2 30 a	3.0	A morning, C
28.2	28.0	28.5	28.5	28.2	27.9	28.77	32.3	2 30 p	26.7	9 00 a	5.6	C
27.8	28.1	28.0	28.3	28.0	28.0	27.65	29.6	2 00 p	24.0	10 00 a	5.6	C, A night
28.2	28.0	27.7	27.9	28.2	28.0	28.30	30.2	1 24 p	26.3	9 45 a	3.9	A
28.1	27.9	27.7	27 9	27.9	28.1	27.75	29.5	1 20 p	25.0	10 00 a	4.5	C
27.4	27.1	27.0	27.6	27.8	27.6	27.77	29.9	1 30 p	26.1	9 50 a	3.8	C, A night
28.2	27.9	27.7	27.4	27.1	28.6	28.03	30.1	4 50 a	25.4	9 30 a	4.7	S°
27.6	27.9	27.6	27.5	27.5	27.5	27.67	29.7	4 50 a	25.3	9 26 a	4.4	A
27.5	27.8	27.5	27.5	27.5	27.5	27.56	28.1	1 00 p	26.7	10 00 a	1.4	C
27.6	27.6	27.6	27.6	27.4	27.4	27.20	27.7	2 00 p	24.7	9 35 a	3.0	C
27.5	27.5	27.5	27.5	27.3	27.3	27.47	29.1	1 00 p	26.0	9 00 a	3.1	C
27.2	27.4	27.4	27.2	27.1	27.2	27.00	29.1	2 00 p	24.2	10 00 a	4.9	C
28.9	28.9	28.9	29.0	29.0	29.0	28.58	31.2	1 00 p	25.8	8 25 a	5.4	C
29.4	29.1	28.8	28.6	29.1	29.2	29.00	32.6	2 00 p	26.2	9 00 a	6.4	C
28 8	29.3	29.1	28.4	28.8	28.7	28.77	31.3	2 00 p	26.5	9 00 a	4.8	C
30.3	29.6	29.2	28.6	28.6	27.0	28.97	31.4	Noon	26.8	9 00 a	4.6	S°
28.3	28.5	28.2	29.1	28.6	29.1	28.72	32.4	1 00 p	24.0	8 22 a	8.4	S°
28.4	28.3	28.7	28.4	28.3	28.0	28.11	30.5	1 00 p	25.4	9 30 a	5.1	A
28.8	29.7	29.8	29.9	28.9	29.5	27.36	...		...	...	...	S morning, S°
31.0	31.1	26.9	29.8	29.9	29.8	30.03	31.3	7 00 a	26.9	9 00 p	4.4	S°
29.8	29.7	29.7	29.7	29.7	29 5	30.07	32.9	2 14 p	26.9	9 30 a	6.0	S°
28.64	28.70	28.36	28.45	28.25	28.32	28.44	30.49		26.16		4.33	

HORIZONTAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
804	803	796	801	801	806	8122	836	1 15 p	793	9 08 p	.0343	A
803	800	800	800	807	802	8106	830	1 45 p	799	10 08 p	31	C
801	786	800	774	785	772	8052	826	3 00 p	772	M. N.	54	C, S° night
768	774	776	779	777	779	7850	826	4 47 a	754	5 40 p	72	S°
782	785	788	785	797	790	7851	799	3 12 p	771	10 00 a	28	A morning, C
788	793	801	806	804	809	8005	818	1 16 p	785	4 30 p	33	C, A late at night
792	792	794	790	795	792	7973	810	2 03 a	786	11 18 a	24	C
807	805	804	804	808	809	8056	819	9 18 a	783	1 40 a	36	A morning, C
815	820	814	810	812	812	8072	820	8 00 p	781	Noon	39	C
819	811	811	811	818	820	8185	835	8 20 a	799	0 24 p	36	C, A afternoon
817	814	812	816	816	816	8136	832	8 00 a	791	0 27 p	41	A
816	812	819	810	821	821	8221	833	8 00 a	811	8 16 p	22	C, A occasionally
817	815	817	815	815	821	8208	831	1 14 a	812	2 24 p	19	C, A night
792	797	803	804	799	825	8071	827	5 10 a	777	3 00 p	50	A
805	801	805	806	805	815	8077	829	0 07 a	798	2 08 p	31	A
803	803	807	809	809	809	8090	822	1 17 a	800	2 25 p	22	A
809	810	810	810	810	808	8162	833	9 06 a	806	6 32 p	27	C
813	815	817	818	819	820	8167	827	8 18 a	805	0 42 a	22	C
822	822	823	825	825	826	8257	844	9 14 a	818	0 27 a	26	C
...	...	...	...	...	....	8284	...	...	...	...	...	C
817	819	816	818	820	820	8222	...	...	...	...	...	C
812	811	811	817	818	818	8149	825	10 16 p	798	Noon	27	C
776	779	785	791	797	813	8016	825	3 12 a	773	7 35 p	52	S°
815	813	798	809	805	821	8120	834	8 13 a	796	11 00 a	38	S°, S late at night
815	817	818	821	816	828	8104	821	1000 p	790	11 00 a	31	A
...	...	...	...	...	...	8299	...	...	...	...	...	S morning, S°
753	756	788	784	774	786	7782	...	...	..	...	...	S°
800	807	807	808	807	809	7935	809	M .N.	773	11 30 a	36	S
8023	8023	8046	8047	8062	8095	8088	8255		7905		.0350	

明治三十年二月

偏角 4°W+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	28′.9	28′.3	28′.3	39′.0	29′.0	29′.0	29′.3	29′.0	27′.9	27′.3	27′.4	28′.7	29′.2	29′.0	29′.0	28′.9	28′.7	28′.7
2	28.9	28.9	29.1	28.5	28.6	28.9	29.2	28.6	27.9	27.8	29.2	30.8	30.5	29.7	29.2	28.9	28.6	28.8
3	28.8	28.7	28.7	28.7	28.5	28.7	28.5	27.4	27.2	27.5	28.4	29.9	30.8	29.9	28.7	28.0	27.7	28.1
4	28.7	27.8	28.7	28.1	27.7	30.0	29.3	29.0	28.8	28.7	30.4	31.9	32.0	31.0	30.7	29.0	30.4	30.6
5	28.1	28.6	28.4	29.8	28.6	28.7	29.3	28.7	28.4	28.9	29.3	30.5	30.5	30.0	28.9	28.0	28.9	29.2
6	28.6	28.5	28.8	28.6	28.6	29.4	28.6	27.3	27.2	28.0	29.3	30.5	31.0	30.2	29.8	28.9	28.8	29.8
7	28.4	28.4	28.4	28.4	28.5	28.7	28.1	27.2	26.9	27.5	28.5	30.0	30.6	30.9	30.4	29.6	29.4	29.6
8	27.4	27.6	26.8	26.8	27.1	27.7	29.2	28.4	28.9	29.3	29.3	28.9	29.7	30.0	29.7	29.0	28.4	38.3
9	28.5	28.3	28.3	28.3	28.5	28.6	28.6	27.6	26.7	27.0	29.2	29.9	31.4	32.1	31.4	29.8	28.9	28.2
10	27.8	27.8	27.3	27.3	27.8	28.4	28.5	27.0	25.5	24.0	24.9	28.1	28.9	29.6	29.3	28.4	27.4	27.5
11	27.9	27.7	28.2	28.3	29.9	28.2	28.6	27.7	26.7	26.9	27.2	29.2	30.1	29.9	29.6	29.1	28 0	28.0
12	27.8	27.8	27.9	27.9	27.8	28.1	27.9	27.1	25.6	25.0	26.0	27.9	29.4	29.1	28.4	28 8	28.1	27.8
13	27.8	27.5	27.8	27.8	28.0	28.1	28.1	27.7	26.5	26.2	27.1	38.3	29.4	29.6	29.3	28.1	27.4	27.4
14	27.6	27.6	27.3	27.7	28.0	28.9	29.2	27.6	26.4	25.7	27.1	29.3	30.5	30.8	29.5	28.1	28.9	25.6
15	27.6	27.8	28.9	28.2	29.2	27.6	27.6	26.8	25.7	26.6	27.0	27.6	28.5	28.2	27.9	28.2	27.6	28.1
16	27.2	26.9	27.7	27.5	27.5	27.7	27.5	27.4	27.2	26.7	27.8	28.0	28.1	27.8	27.8	27.8	27.8	27.8
17	27.1	27.3	27.4	27.4	27.6	27.6	27.4	26.1	25.0	26.3	26.1	27.1	27.4	27.7	27.6	27.6	27.4	27.6
18	27.3	27.3	27.3	27.5	27.5	27.7	27.5	26.5	26.0	26.2	27.6	28.6	29.1	28.8	27.9	27.3	27.2	27.5
19	27.2	27.4	27.2	27.4	27.1	27.2	26.9	25.6	24.3	24.2	25.2	27.4	28.8	29.1	28 0	27.1	27.1	27.2
20	27.0	26.9	26.9	26.9	26.9	26.9	…	…	26.4	28.2	29.8	31.1	31.2	30.8	30.2	29.0	28.2	28.6
21	28.8	28.8	28.8	28.6	28.5	28.2	27.8	26.7	24.7	27.6	29.7	31.5	32.4	32.6	29.8	29.2	29.2	29.4
22	29.1	28.8	28.8	28.7	28.5	28.4	27.1	26.5	26.5	26.9	28.5	30.3	31.2	31.3	30.2	29.3	28.7	28.7
23	28.4	28.4	28.3	28.2	28.0	28.2	27.9	27.1	26.8	28 3	29.9	31.7	31.2	31.1	30 3	29.6	28.9	29.6
24	28.0	28.5	28.5	28.2	28.2	28.3	27.6	26.3	24.5	26.9	31.0	32.0	32.4	31.1	30.4	28.9	28.3	28.3
25	28.4	28.0	27.9	28.0	28.0	27.9	27.1	26.4	25.7	25.8	28.1	29.4	30.5	30.2	29.3	28.0	27.7	28.1
26	29.0	26.1	26.2	24.8	25.4	25.4	25.6	26.0	25.6	25.4	27.9	…	…	…	…	…	…	28.5
27	29.8	29.7	30.2	29.7	29.7	29.2	31.3	29.9	29.7	29.1	30.4	31.1	31.1	30.2	3.01	30.1	30.1	30.8
28	29.9	28.3	29.8	31.1	31.1	31.6	32.4	28.3	27.0	27.6	30 5	31.0	32.4	32.6	31.7	29.7	29.5	29.2
平均 Mean	28.21	27.99	28.16	28.12	28.21	28.33	28.37	27.40	26.63	26.99	28.31	29.66	30.30	30.12	29.45	28.67	28.42	28·46

水平磁力 0.29……+

1	811	801	800	804	808	813	818	826	828	824	828	826	831	826	812	811	810	804
2	806	806	811	814	811	809	810	813	811	814	818	816	827	829	824	814	808	802
3	802	804	806	807	808	811	815	813	809	…	802	804	810	819	826	825	822	818
4	774	791	785	765	782	783	815	814	814	820	804	787	784	784	774	780	773	757
5	771	775	784	783	782	783	787	783	777	771	777	790	792	796	796	796	790	782
6	789	789	794	794	795	794	803	806	799	787	795	812	815	816	814	814	804	790
7	810	810	806	806	806	806	800	794	790	788	789	789	792	797	799	803	800	796
8	785	791	798	807	798	799	804	812	817	817	812	810	811	806	807	809	809	805
9	809	808	806	808	815	812	815	812	802	797	789	781	783	793	817	814	814	814
10	812	813	818	820	827	824	829	834	834	832	811	807	807	805	812	823	824	822
11	816	810	818	817	828	828	826	832	828	816	798	795	793	798	804	807	810	811
12	816	823	825	822	825	825	830	833	833	831	821	819	822	822	823	819	822	821
13	826	827	820	821	821	825	829	829	827	825	819	813	817	814	818	823	825	821
14	819	820	825	822	826	824	825	820	820	813	797	797	791	782	777	799	796	798
15	812	808	813	814	811	813	813	814	813	810	810	810	802	799	801	804	803	798
16	814	810	808	806	809	812	816	813	815	821	816	814	807	800	803	804	803	804
17	817	813	813	810	814	818	826	830	833	831	824	816	816	821	815	813	813	809
18	807	807	809	807	812	815	823	826	826	823	820	815	815	820	821	821	818	815
19	819	819	819	819	819	820	825	835	844	841	836	825	829	825	825	826	825	824
20	826	828	829	829	830	…	…	…	…	…	…	…	…	…	…	…	…	…
21	…	…	…	…	…	…	…	…	…	…	…	846	831	823	827	822	816	813
22	820	820	820	819	822	823	821	816	811	807	802	798	805	809	815	822	822	818
23	816	818	822	819	814	814	808	800	795	786	786	784	796	805	816	816	809	794
24	813	805	807	807	807	809	820	824	824	809	796	798	809	818	821	821	820	818
25	803	799	804	811	814	812	815	814	807	796	790	793	798	808	818	817	818	817
26	810	847	838	838	839	847	836	831	826	817	800	…	…	…	…	…	…	…
27	…	…	…	…	…	…	…	…	…	…	…	772	782	791	793	790	779	768
28	796	785	786	788	791	789	795	799	796	792	774	781	785	781	779	789	796	804
平均 Mean	8077	8087	8102	8099	8121	8123	8162	8169	8152	8112	8046	8038	8058	8072	8091	8108	808	8047

FEBRUARY 1897.

MAGNETIC DECLINATION.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
29.0	29.3	29.3	29.0	29.3	29.0	28.80	29.5	9 10 p	27.1	10 25 a	2.4	A
28.9	29.2	29.2	29.2	28.8	29.1	29.02	30.8	Noon	27.8	10 00 a	3.0	C
29.1	30.1	27.2	29.6	27.1	28.4	28.57	30.9	1 00 p	26.8	11 09 p	4.1	C, A night
29.0	29.3	29.3	27.5	28.0	28.4	29.35	31.2	1 15 p	27.2	9 53 p	4.0	S°
29.5	29.0	29.0	29.0	28.0	28.7	29.00	30.5	1 00 p	27.7	2 42 a	2.8	A morning, C
29.5	28.8	28.8	28.5	28.6	28,3	28.93	30.8	0 45 p	27.2	9 00 a	3.6	C
29.4	29.8	29.3	29.0	28.5	27.9	28.89	31.0	2 18 p	26.9	9 00 a	4.1	C
28.6	28.6	28.6	28.4	28.3	28.4	28.47	29.7	3 00 p	26.7	2 30 a	3.0	A morning, C
28.2	28.0	28.5	28.5	28.2	27.9	28.77	32.3	2 30 p	26.7	9 00 a	5.6	C
27.8	28.1	28.0	28.3	28.0	28.0	27.65	29.6	2 00 p	24.0	10 00 a	5.6	C, A night
28.2	28.0	27.7	27.9	28.2	28.0	28.30	30.2	1 24 p	26.3	9 45 a	3.9	A
28.1	27.9	27.7	27 9	27.9	28.1	27.75	29.5	1 20 p	25.0	10 00 a	4.5	C
27.4	27.1	27.0	27.6	27.8	27.6	27 77	29.9	1 30 p	26.1	9 50 a	3.8	C, A night
28.2	27.9	27.7	27.4	27.1	28.6	28.03	30.1	4 50 a	25.4	9 30 a	4.7	S°
27.6	27.9	27.6	27.5	27.5	27.5	27.67	29.7	4 50 a	25.3	9 26 a	4.4	A
27.5	27.8	27.5	27.5	27.5	27.5	27.56	28.1	1 00 p	26.7	10 00 a	1.4	C
27.6	27.6	27.6	27.6	27.4	27.4	27.20	27.7	2 00 p	24.7	9 35 a	3.0	C
27.5	27.5	27.5	27.5	27.3	27.3	27.47	29.1	1 00 p	26.0	9 00 a	3.1	C
27.2	27.4	27.4	27.2	27.1	27.2	27.00	29.1	2 00 p	24.2	10 00 a	4.9	C
28.9	28.9	28.9	29.0	29.0	29.0	28.58	31.2	1 00 p	25.8	8 25 a	5.4	C
29,4	29.1	28.8	28.6	29.1	29.2	29.00	32.6	2 00 p	26.2	9 00 a	6.4	C
28 8	29.3	29.1	28.4	28.8	28.7	28.77	31.3	2 00 p	26.5	9 00 a	4.8	C
30.3	29.6	29.2	28.6	28.6	27.0	28.97	31.4	Noon	26.8	9 00 a	4.6	S°
28.3	28.5	28.2	29.1	28.6	29.1	28.72	32.4	1 00 p	24.0	8 22 a	8.4	S°
28.4	28.3	28.7	28.4	28.3	28.0	28.11	30.5	1 00 p	25.4	9 30 a	5.1	A
28.8	29.7	29.8	29.9	28.9	29.5	27.36	...		...	...	...	S morning, S°
31.0	31.1	26.9	29.8	29.9	29.8	30.03	31.3	7 00 a	26.9	9 00 p	4.4	S°
29.8	29.7	29.7	29.7	29.7	29 5	30.07	32.9	2 14 p	26.9	9 30 a	6.0	S°
28.64	28.70	28.36	28.45	28.25	28.32	28.44	30.49		26.16		4.33	

HORIZONTAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
804	803	796	801	801	806	8122	836	1 15 p	793	9 08 p	.0843	A
803	800	800	800	807	802	8106	830	1 45 p	799	10 08 p	31	C
801	786	800	774	785	772	8052	826	3 00 p	772	M. N.	54	C, S° night
768	774	776	779	777	779	7850	826	4 47 a	754	5 40 p	72	S°
782	785	788	785	797	790	7851	799	3 12 p	771	10 00 a	28	A morning, C
788	793	801	806	804	809	8005	818	1 16 p	785	4 30 p	33	C, A late at night
792	792	794	790	795	792	7973	810	2 03 a	786	11 18 a	24	C
807	805	804	804	808	809	8056	819	9 18 a	783	1 40 a	36	A morning, C
815	820	814	810	812	812	8072	820	8 00 p	781	Noon	39	C
819	811	811	811	818	820	8185	835	8 20 a	799	0 24 p	36	C, A afternoon
817	814	812	816	816	816	8136	832	8 00 a	791	0 27 p	41	A
816	812	819	810	821	821	8221	833	8 00 a	811	8 16 p	22	C, A occasionally
817	815	817	815	815	821	8208	831	1 14 a	812	2 24 p	19	C, A night
792	797	803	804	799	825	8071	827	5 10 a	777	3 00 p	50	A
805	801	805	806	805	815	8077	829	0 07 a	798	2 08 p	31	A
803	803	807	809	809	809	8090	822	1 17 a	800	2 25 p	22	A
809	810	810	810	810	808	8162	833	9 06 a	806	6 32 p	27	C
813	815	817	818	819	820	8167	827	8 18 a	805	0 42 a	22	C
822	822	823	825	825	826	8257	844	9 14 a	818	0 27 a	26	C
...	...	...	...	...	...	8284	...	...	...	...	...	C
817	819	816	818	820	820	8222	...	...	...	...	...	C
812	811	811	817	818	818	8149	825	10 16 p	798	Noon	27	C
776	779	785	791	797	813	8016	825	3 12 a	773	7 35 p	52	S°
815	813	798	809	805	821	8120	834	8 13 a	796	11 00 a	38	S°, S late at night
815	817	818	821	816	828	8104	821	10 00 p	790	11 00 a	31	A
...	...	...	...	...	...	8299	...	...	...	...	...	S morning, S°
753	756	788	784	774	786	7782	...	...	...	...	...	S°
800	807	807	808	807	809	7935	809	M. N.	773	11 30 a	36	S
8023	8023	8046	8047	8062	8095	8088	8255		7905		.0350	

明治三十年二月

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6

鉛直磁力 0.34.....+

1	401	397	396	398	400	401	406	408	403	393	386	382	393	395	389	390	395	395
2	396	396	396	398	396	395	398	395	393	388	387	385	389	391	389	382	386	386
3	375	375	376	378	380	382	383	390	374	365	...	369	376	376	376	376	374	376
4	375	380	383	373	379	377	396	391	385	381	362	364	361	370	372	372	377	372
5	376	380	385	384	382	385	385	378	371	370	371	378	385	390	388	385	381	382
6	383	382	386	385	386	387	390	387	379	371	370	378	385	385	386	386	382	379
7	384	383	382	380	382	386	382	379	378	373	371	373	379	386	387	388	386	386
8	380	381	384	389	383	387	389	392	393	384	377	379	377	381	387	388	388	387
9	389	387	386	387	389	391	393	390	381	378	374	374	381	390	401	404	397	394
10	390	390	391	391	391	392	394	395	391	386	373	376	383	390	391	394	392	391
11	389	388	392	391	400	393	392	397	392	378	374	378	385	395	399	402	403	402
12	401	401	403	401	401	403	407	407	403	400	392	393	398	403	403	401	404	400
13	404	402	399	401	401	406	406	408	399	394	389	387	393	397	404	408	406	401
14	403	405	405	403	405	406	407	402	395	391	379	391	392	391	394	407	405	399
15	402	402	405	404	407	404	405	401	397	390	386	388	388	392	394	398	398	397
16	360	358	359	359	359	361	363	360	358	357	351	351	351	...	354	359	360	360
17	362	360	360	360	362	366	367	370	366	356	350	347	347	353	352	354	358	359
18	360	360	363	363	364	367	371	371	369	363	361	360	365	367	365	364	364	364
19	362	362	362	362	364	366	368	369	369	360	351	345	353	358	361	362	362	363
20	363	364	363	364	365	...	...	...	354	347	347	253	356	359	363	366	366	363
21	363	364	366	365	363	364	366	365	356	350	347	347	348	355	363	363	362	365
22	366	366	366	365	366	367	366	360	356	352	351	351	356	357	360	363	364	362
23	362	362	365	360	360	362	362	354	349	341	341	343	353	360	363	363	359	357
24	359	363	366	363	362	364	368	362	353	341	341	344	352	359	361	362	361	358
25	360	358	360	362	362	362	361	359	351	339	336	341	347	355	356	353	353	353
26	353	353	356	355	356	361	353	355	351	342	339	...	...	...	...	...	...	...
27	320	328	325	330	327	328	332	332	325	327	324	325	329	336	337	337	332	333
28	346	336	340	344	343	342	348	345	338	331	319	329	339	343	348	351	354	360
平均 Mean	3744	3744	3757	3755	3762	3780	3799	3782	3725	3660	3611	3641	3689	3744	3757	3770	3766	3757

空中・電氣

1	26*	-18*	-144*	-180*	-216*	-234*	-248*	-260*	-264*	-176*	-16*	-36*	0*	2*	8*	12*	20*	0*
2	...	...	...	...	...	...	-122*	0*	6*	4*	...	...	0*	0*	2*	8*	12*	18*
3	14	16	19	16	15	22	32	35	28	43	55	0	55	47	67	70	59	75
4	96	88	69	58	51	51	109	168	129	105	72	63	68	53	53	51	60	120
5	46	42	47	66	85	139	251	303	185	100	87	77	71	42	40	62	73	118
6	140	184	85	130	163	280	170	184	162	99	44	55	6	36	13	-31	30	61
7	72	72	73	75	82	106	171	166	77	0	-72	-283	-4	-84	-49	13	68	91
8	154	152	113	106	113	127	143	157	160	154	141	128	68	83	93	92	80	72
9	120	127	153	175	184	194	277	295	179	127	86	37	0	30	44	34	48	67
10	55*	47*	56*	65*	82*	121*	187*	262*	224*	105*	78*	63*	54*	37*	26*	30*	58*	7*
11	...	...	...	...	...	...	...	...	13*	-8*	-79*	-152*	-195*	-98*	-53*	-85*	19*	45*
12	...	...	...	...	...	...	...	...	155*	64*	-72*	0*	24*	24*	16*	20*	43*	53*
13	198	185	121	200	162	131	132	287	223	149	62	31	35	28	23	34	53	74
14	83	64	58	64	87	102	110	100	71	57	44	37	15	38	38	35	39	64
15	107	105	105	114	129	126	136	124	105	96	91	61	55	91	129	158	160	129
16	126*	65*	65*	72*	85*	101*	118*	117*	120*	92*	44*	34*	80*	-24*	17*	-17*	38*	44*
17	...	...	...	...	...	...	52*	65*	19*	-17*	-88*	-119*	-124*	-116*	-63*	-22*	15*	19*
18	27	31	37	42	50	58	65	-10	-192	-210	-112	-58	-43	-58	-6	15	16	19
19	93*	108*	127*	83*	93*	135*	...	...	...	90*	84*	52*	+	+	-	+	+	+
20	...	...	...	...	...	...	...	7*	14*	14*	16*	19*	22*	27*	32*	54*	65*	52*
21	109*	98*	102*	89*	...	...	...	...	+	+	+	+	54*	47*	45*	62*	109*	98*
22	50	60	97	99	83	111	111	129	94	72	55	43	56	46	44	58	80	74
23	87	84	86	90	94	84	63	57	43	46	59	59	69	57	39	37	82	106
24	106	103	89	106	216	163	143	223	176	76	61	51	67	40	32	27	25	31
25	67	63	61	63	75	94	118	125	87	71	43	16	26	20	24	26	28	43
6	34	28	24	32	32	30	34	39	29	16	18	18	12	22	20	22	28	34
7	32	36	38	40	44	58	86	78	48	14	6	6	27	10	18	20	22	28
8	93	64	66	64	64	95	97	101	83	60	60	68	31	24	30	42	60	52
2																		
2																		
2																		
平均 Mean	84.8	83.6	74.5	85.6	96.1	109.5	124.9	142.3	93.7	59.7	44.4	22.7	34.1	29.2	36.3	42.5	56.2	69.9

FEBRUARY 1897.

VERTICAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8p	P. M. 9a	P. M. 10p	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
396	398	396	368	400	398	3964	408	h m 8 00 a	382	h m Noon	0.26	S°
389	389	389	389	393	388	3910	398	4 00 a	382	4 00 p	16	C
371	369	376	369	376	374	3750	397	7 00 a	369	9 47 p	28	C, S° night
379	384	384	384	380	377	3774	399	7 10 a	355	0 44 p	44	S
385	386	388	386	388	385	3822	390	2 00 p	370	10 00 a	20	A morning, C afternoon
382	386	387	389	387	385	3835	390	7 00 a	370	11 00 a	20	C
384	386	387	384	387	382	3823	388	4 00 p	369	11 24 a	19	C
388	388	388	388	388	388	3856	393	9 00 p	377	11 00 a	16	A morning, C
394	397	393	391	391	390	3892	404	4 00 p	374	11 00 a	30	C, A night
390	388	390	390	391	391	3892	395	8 00 a	373	11 00 a	22	A
406	403	402	404	403	400	3945	406	5 40 p	374	11 00 a	32	A
398	397	401	400	405	401	4010	408	2 26 a	390	11 14 a	18	A
401	398	402	402	404	406	4007	408	8 00 a	387	Noon	21	C, A afternoon
400	402	405	403	400	413	4001	409	4 38 p	379	11 00 a	30	A
401	398	400	402	400	401	3983	419	0 07 a	383	11 28 a	36	A
359	358	360	360	359	358	3580	405	7 00 a	387	11 17 a	18	C
359	360	360	360	360	359	3586	373	8 00 a	348	0 33 p	25	C
364	365	365	364	364	364	3645	374	8 00 a	361	Noon	13	C
363	365	366	366	365	362	3619	372	8 26 a	347	Noon	25	C
363	364	365	364	364	362	3607	...	.....	...	.....	...	C
367	368	366	368	369	366	3615	371	11 00 p	348	11 00 a	23	C
361	364	365	365	365	365	3617	369	6 00 a	353	11 00 a	16	C
354	358	362	365	358	358	3571	370	11 00 p	342	10 00 a	28	A
361	361	355	362	362	367	3586	370	7 00 a	339	10 25 a	31	S°, S late at night
354	355	356	356	356	359	3543	365	4 09 a	338	11 00 a	27	A
..	...	...	...	...	...	3522	...	.....	...	.....	...	S morning, S°
329	335	347	345	344	345	3322	351	9 30 p	323	11 25 a	28	S°
354	355	354	353	353	353	3449	363	6 00 p	317	11 15 a	46	S
3760	3769	3781	3780	3782	3777	3745	3883		3636		0.235	

ATMOSPHERIC ELECTRICITY

								h m		h m		
14*	...	...	...	...	...	....	...	...	...	....	...	-●°or●-
18*	13*	0 *	0 *	12*	12*	....	...	...	...	....	...	-●or●°-10.05 a●°9.50p-10.25 p ⁄M. N.
75	71	44*	-20*	75	93	44.6	59	10 24 a	193	9 36 p	252	●°8.33p-10.10 p
55	82	80	60	49	46	76.5	189	8 24 a	33	5 54 a	157	—
85	81	100	97	152	160	104.5	332	7 42 a	39	2 30 p	371	—
38	86	50	72	67	69	91.4	324	1 41 a	53	6 08 p	377	—
99	131	142	122	108	118	53.9	201	7 24 a	277	11 42 a	478	⁄3.p
128	248	207	150	131	120	130.0	271	7 47 p	38	1 08 p	233	—
87	113	150	231	106	75	122.5	330	8 15 a	4	1 06 p	334	—
51*	17*	45*	...	...	...	.....	277	8 42 a	77	8 53 p	354	△°✱°2.00 a-2.10a ✱°9.30 p
66*	...	...	...	...	...	....	...	...	...	....	...	⁄2.p,4. p
68*	83*	87*	76*	87*	151*	....	...	...	...	....	...	—
72	45	51	168	121	94	111.6	321	7 45 a	19	2 53 p	302	—
68	95	114	95	110	133	71.7	161	11 38 p	0	0 45 p	161	—
137	141	110	133	160	154	119.0	187	4 30 p	19	1 35 p	168	●°0.50p-2.15p
19*	...	...	...	...	...	....	...	...	...	....	...	●°1.50 a-3.20a, 4.10p- 4.55p, 8.55p
16*	16*	19*	22*	23*	27*	....	...	...	...	....	...	⁄11.a-1. p,3p ⌞⁄M.N.
16	19	21	23	53	56	6.7	77	7 03 a	300	9 53 a	377	⁄8. a-2. p
...	...	...	...	...	...	....	...	...	...	....	...	✱°1.45p-1.53p,1, ✱°220p,-✱2.50 p-
43*	62*	...	...	...	36*	....	...	...	...	....	...	-✱-✱°4.00 a-9.20 a
115*	80*	58*	58*	56*	49*	....	...	...	...	....	...	—
80	94	125	125	102	107	83.1	166	5 33 a	37	5 22 p	129	—
133	186	154	129	121	113	86.6	235	8 16 p	31	9 53 a	204	—
10	48	50	59	74	74	86.7	255	8 22 a	23	5 06 p	232	—
59	59	39	34	35	37	54.7	144	7 05 a	16	2 16 p	128	●°1.15 p-2.40 p
40	56	70	68	68	42	34.0	99	6 47 p	0	1 07 p	99	●°0,50p- 1.35p ◁SE 10.50 p-11.30 p
34	56	68	62	62	64	39.9	102	7 11 a	24	10 55 a	126	—
88	77	28	30	41	28	60.3	143	0 54 a	18	2 17 p	125	—
74.1	93.8	91.7	97.5	89.7	87.9	75.9						

明治三十年三月

偏角 4° W +

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	29′4	29′2	29′8	29′8	29′7	29′2	26′7	26′9	26′7	27′9	30′2	31′3	32′6	32′0	31′3	29.8	29′4	28′5
2	29.1	28.5	28.3	28.5	29.2	29.8	30.5	28.6	28.3	26.9	29.2	32.0	32.6	32.3	…	29.7	29.2	29.1
3	28.6	28.6	28.8	28.8	29.5	29.5	28.6	37.2	26.4	27.8	31.1	33.9	33.9	32.7	31.0	29.7	29.4	29.7
4	28.6	58.5	28.5	38.0	28.5	28.5	29.4	27.8	27.9	28.0	29.5	31.4	32.1	33.0	32.9	31.8	31.1	31.1
5	28.5	28.5	28.5	28.8	29.4	30.8	29.4	29.5	28.5	28.5	31.1	34.0	34.0	32.9	31.8	31.0	29.9	30.2
6	29.3	29.4	29.6	29.1	29.4	29.4	28.1	26.8	26.8	28.1	29.8	32.9	33.9	33.8	32.2	31.2	30.3	30.1
7	29.1	29.1	29.1	29.1	29.0	28.8	28.5	27.8	26.6	28.1	29.0	32.5	32.2	31.6	30.9	29.7	29.1	29.1
8	29.3	29.6	29.6	29.6	29.6	29.6	28.1	25.9	25.5	23.1	29.7	31.7	32.2	32.2	32.3	31.5	30.0	30.6
9	28.8	27.5	28.8	29.8	29.7	29.7	30.6	30.6	28.8	29.0	30.0	32.5	32.9	33.3	32.5	31.0	29.8	29.7
10	28.5	29.4	30.6	29.4	29.6	29.7	28.8	28.1	27.1	29.5	27.3	29.6	31.5	32.0	31.5	30.9	30.0	29.4
11	29.3	29.4	29.4	29.4	29.6	30.0	32.2	31.3	26.9	26.6	29.6	31.3	31.7	32.2	31.9	30.9	29.7	29.4
12	29.7	28.5	29.4	29.6	29.4	29.4	28.8	28.1	27.2	27.9	30.4	31.6	32.2	32.0	31.2	29.8	29.6	29.6
13	29.1	29.4	29.3	29.3	29.4	29.4	29.7	28.4	28.1	29.1	30.9	32.5	32.5	32.3	31.2	30.6	30.0	30.1
14	29.6	29.1	29.4	29.6	29.6	29.7	29.3	28.1	26.9	27.1	28.7	29.7	30.7	31.0	30.3	29.7	29.4	29 6
15	29.4	29.7	29.4	29.4	29 3	29.0	28.7	28.4	28.1	28.5	30.0	31.2	31.5	31.3	30.4	29.7	29.1	29.0
16	29.0	29.1	29.1	29.4	29.3	29.1	28.4	27.5	26.8	28.2	29.3	31.5	32.3	32.3	31.5	30.0	29.0	29.6
17	29.2	29.0	28.9	28.9	29.2	29.0	28.1	26.8	25.9	26.7	28.9	30.8	31.4	31.2	…	29.2	28.4	29.3
18	28.4	28.6	28.9	28.7	28.9	29.6	29.7	27.8	27.1	27.8	29.7	32.4	32.5	32.4	31.1	29.5	28.9	29.5
19	29.3	29.0	29.3	29.2	29.2	29.3	27.8	25.9	25.2	26.8	29.7	…	…	…	…	…	…	…
20	29.2	28.6	28.6	28.6	28.7	29.7	27.4	27.7	26.8	27.4	28.7	…	31.0	31.7	30.5	29.2	28.3	28.9
21	28.9	29.1	28.8	28.9	28.8	28.9	28.6	28.8	26.1	26.6	28.0	29.2	30.8	31.0	30.8	30.5	29.2	29.1
22	29.1	29.1	28.8	28.6	28.9	28.9	28.3	27.0	26.3	27.0	26.7	31.0	32.0	32.0	31.3	30.7	29.4	30.5
23	29.1	28.9	28.8	28.6	28.8	29.5	28.6	26.7	25.4	27.0	29.5	31.8	32.0	31.0	31.0	31.0	28.9	30.1
24	28.9	28.8	29.1	29.1	29.1	29.2	29.5	28.2	27.6	28 3	29.5	31.6	32.4	32.4	31.3	29.5	29.1	29.1
25	27.6	26.0	26.6	29.1	29.2	29.5	29.1	27.5	26.1	26.3	28.3	30.5	31.4	32.0	31.4	30.5	29.1	29.2
26	28.9	28.9	28.9	28.9	28.9	29.1	28.0	27.0	26.4	26.3	27.6	28.9	30.4	30.3	31.0	30.5	29.4	29.1
27	29.1	29.1	29.1	28.9	29.1	29.4	28.6	27.0	26.3	27.5	29.1	30.4	30.7	31.0	30.6	29.2	29.1	29.2
28	28.8	28.7	29.1	28.8	29.4	29.6	28.8	27.2	25.5	26.1	28.4	30.6	31.9	32.4	31.8	30.6	29.4	29.1
29	28.6	28.4	28.3	28.6	27.7	29.0	28.4	27.7	27.4	27.1	28.4	31.2	32.6	33.2	31.8	30.5	29.4	29.7
30	28.4	28.0	28.8	29.0	30.2	30.7	29.6	27.7	26.4	26.7	29.1	32.1	34.0	33.1	32.4	30.6	29.4	28.4
31	28.8	28.8	28.8	28.8	29.1	29.1	28.7	25.8	25.9	26.9	29.6	32.4	33.8	33.8	33.2	31.5	29.9	30 0
平均 Mean	28.95	28.79	28.98	29.04	29.21	29.42	28.90	27.74	26.81	27.28	29.26	31.47	32.19	32.16	31.47	30.33	29.43	29.50

水平磁力 0.29……+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	806	804	812	808	808	810	823	817	809	804	791	798	791	802	809	814	817	823
2	819	821	818	819	819	814	822	823	819	808	805	801	801	801	801	804	805	805
3	813	813	809	806	807	807	808	804	797	789	786	792	805	816	822	818	815	813
4	800	800	800	800	803	807	814	817	800	792	798	799	797	799	780	785	786	782
5	791	782	783	787	782	790	795	791	788	786	774	756	782	791	785	784	787	784
6	790	792	792	795	797	801	798	793	788	779	774	778	700	800	801	799	800	799
7	797	798	798	800	801	801	810	806	797	792	806	796	823	828	831	830	821	819
8	813	813	813	817	817	819	824	821	812	827	788	795	799	809	807	802	800	782
9	795	799	799	797	804	819	831	818	818	812	802	802	804	804	803	809	810	806
10	813	821	823	824	824	826	829	820	815	813	812	811	807	806	819	817	814	810
11	819	821	822	823	826	826	822	816	835	832	800	796	808	818	819	821	823	819
12	819	830	823	822	824	826	829	827	827	821	814	824	825	827	826	826	822	815
13	829	831	828	830	834	835	838	837	827	805	798	798	808	818	820	820	811	798
14	826	830	827	826	826	824	832	832	833	831	827	825	826	831	837	838	836	834
15	827	834	832	830	830	831	831	826	820	821	820	818	819	826	831	827	826	826
16	832	833	828	830	829	830	831	829	823	814	812	810	814	824	831	830	828	825
17	826	828	825	828	829	831	832	828	817	805	806	813	824	836	843	…	836	834
18	831	823	822	822	823	821	821	819	813	803	800	812	821	834	837	835	822	821
19	823	826	825	827	829	830	833	823	810	794	797	…	…	…	…	…	…	…
20	837	842	841	839	837	843	841	844	841	831	824	828	837	843	843	840	835	830
21	832	833	833	835	833	836	838	835	829	821	815	821	828	836	839	839	840	836
22	835	832	831	831	830	833	832	831	824	819	817	815	819	825	831	827	832	824
23	831	835	836	834	830	831	837	837	831	812	807	808	803	820	830	819	808	812
24	820	819	818	820	817	820	819	829	827	822	818	822	830	836	839	836	830	827
25	853	849	842	821	826	832	842	846	837	832	819	816	821	829	830	830	826	819
26	829	831	828	831	831	833	835	836	834	828	823	823	829	835	836	829	828	829
27	831	832	833	833	823	835	838	833	833	829	827	839	841	847	844	836	834	834
28	832	831	823	826	827	828	833	828	827	815	803	812	820	831	838	840	837	832
29	834	833	834	831	840	833	837	821	813	813	811	809	818	828	841	843	836	826
30	811	810	820	827	813	820	823	819	820	816	802	810	813	821	817	815	811	808
31	811	810	807	813	807	808	807	803	798	808	813	821	830	836	832	813	808	810
平均 Mean	8202	8212	8202	8204	820	8226	8260	8229	8178	8121	8061	8083	8144	8215	8241	8216	8195	8161

MARCH 1897.

MAGNETIC DECLINATION.

P. M. 7p	8p	9p	10p.	11p	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
28.8	29.2	29.1	29.1	29.7	29.4	29.40	32.6	h m 1 00p	26.4	h m 7 35a	6.2	S°
29.1	28.7	29.2	29.2	29.4	29.4	29.43	32.6	1 00p	26.9	10 00a	5.7	A
29.9	29.8	29.7	29.5	29.1	28.9	29.67	34.2	0 28p	26.4	9 00a	7.8	C
31.7	29.9	29.8	29.4	28.2	28.3	29.75	33.0	2 00p	26.6	10 28p	6.4	S°
29.5	29.7	29.7	29.5	28.6	28.9	30.05	34.3	0 24p	28.2	8 40a	6.1	S° morning, C afternoon
30.0	29.8	30.1	29.6	29.6	29.6	29.95	34.0	1 00p	26.7	8 05a	7.3	C
29.6	29.6	27.5	29.6	29.4	29.6	29.36	32.7	0 19p	26.7	9 00a	6.0	A
30.4	30.0	29 6	29.3	29.4	29.0	29.49	32.4	0 44p	23.2	10 00a	9.2	S°
29.6	30.0	30.9	29.6	28.7	28.4	30.09	33.4	2 00p	27.6	2 00a	5.8	A
30.0	28.7	29.0	29.6	29.4	29.6	29.42	32.6	1 34p	26.3	10 16a	6.3	A
29.7	29.1	28.5	29.1	29.3	29.3	29.82	32.9	7 38a	26.4	9 38a	6.5	A
28.7	29.7	29.6	29.4	29.6	28.2	29.57	32.3	1 00p	27.3	9 00a	5.0	C
29.4	29.3	29.3	29.4	29.4	29.4	29.90	32.7	0 18p	27.2	0 05a	5.5	A with a large wave between 0a and 1a
29.7	29.3	29.4	29.0	28.1	29.3	29.26	30.8	1 00p	26.7	9 34a	4.1	C
29.6	29.4	29.6	29.4	28.5	28.4	29.46	31.6	1 00p	27.8	9 15a	3.8	C
29.7	29.6	29.6	29.6	29.4	29.1	29.52	32.4	1 00p	26.9	9 00a	5.5	C
29.5	29.5	29.3	29.2	29.3	29.3	29 00	31.6	1 00p	25.6	9 30a	6.0	C
29.9	29.6	29.6	29.6	29.5	28.6	29.51	33.0	0 30p	27.3	9 24a	5.8	C
29.5	29.5	29.3	29.3	29.3	29.2	28.64	.....	.....	.....	.....	...	C
29.4	29.4	29.4	29.4	29.4	28.8	28,99	31.7	2 00p	26.9	9 16a	4.8	C
29.2	29.2	29.2	29.4	29.4	29.2	29.07	31.0	2 00p	26.0	9 20a	5.0	C
30.2	29.5	29.4	29.5	29.2	29.1	29.27	32.0	1 00p	26.1	9 32a	5.9	C morning, A afternoon
30.4	29.5	29.4	29.4	29.4	28.5	29.30	33.0	0 48p	25.4	9 00a	7.6	A
29.5	29.4	29.2	28.9	29.1	27.8	29.44	32.4	1 00p	27.5	9 15a	4.9	C
29.4	29.2	29.2	28.9	29.1	29.1	28.93	32.0	2 00p	25.9	9 11a	6.1	S° early in morning
29.2	29.4	29.2	29.1	29.1	29.2	28.93	31.0	3 00p	26.3	10 00a	4.7	C
29.2	29.4	29.4	29.2	29.2	29.1	29.12	31.0	2 00p	26 3	9 00a	4.7	C
29.7	29.4	29.3	29.0	23.7	28.7	29.21	32.4	4 00p	25.5	9 00a	6.9	C
30.3	28.8	29.9	29.1	27.2	28.0	29.22	33.5	1 20p	26.9	9 45a	6.6	S°
29.6	29.6	29.4	28.8	29.0	28.4	29.56	34.1	1 15p	26.4	9 00a	7.7	S°
30.0	29.4	29.1	29.0	28.8	28.8	29.58	34.1	1 45p	25.9	8 00a	8.2	A
29.09	29.44	29.38	29.29	29.08	28.92	29.43	32.58	.	26.51		6.07	

HORIZONTAL MAGNETIC INTENSITY

								h m		h m		
840	822	826	814	812	814	8114	823	7 08a	791	0 40p	.03 32	S°
807	810	810	811	807	812	8105	828	1 45a	796	0 30p	32	C
810	806	810	807	809	801	8068	823	2 54p	786	10 50a	37	C
775	786	793	787	782	784	7944	822	7 30a	774	6 48p	48	S°
789	791	798	792	791	782	7859	799	6 16a	754	11 50a	45	S° morning, C afternoon
799	801	798	796	798	795	7939	803	3 10p	774	11 00a	29	C
814	813	813	811	809	809	8093	836	2 15p	786	9 35a	50	S°
792	802	800	799	793	792	8057	827	10 00a	776	6 34p	51	S°
811	796	781	789	805	807	8050	833	7 17a	779	9 05p	54	A
803	821	817	818	820	820	8168	831	1 40a	802	1 42p	29	A
813	811	813	810	814	825	8180	836	9 05a	795	11 26a	41	A
825	824	829	828	826	834	8247	832	2 12a	812	11 13a	20	C
809	816	815	825	821	820	8196	860	10 11a	794	10 50a	66	A with a large wave between 0a and 1a
831	834	839	841	840	827	8314	841	10 52p	820	0 15a	21	C
826	833	831	831	833	846	8281	838	2 12a	815	11 50a	23	C
824	824	825	828	826	828	8253	833	2 15a	810	Noon	23	C
833	834	829	829	830	830	8272	843	3 00p	802	10 32a	41	C
823	825	826	826	823	824	8220	839	3 35p	797	10 42a	42	C
828	828	833	835	840	840	8248	...	.....	...	.....	...	C
827	829	830	831	837	834	8360	845	6 32a	823	11 04a	22	C
833	835	833	832	834	835	8325	840	5 00p	815	11 00a	25	C
825	832	834	830	832	837	8282	837	m. n.	815	Noon	22	C morning, A afternoon
813	818	823	819	820	825	8225	838	7 13a	801	0 50p	37	A
827	827	827	829	829	856	8268	839	3 00p	816	11 20a	23	C
825	828	830	827	829	832	8309	857	1 30a	816	Noon	41	S° early in morning
831	829	830	828	829	832	8303	836	8 00a	822	11 40a	14	C
836	835	837	836	835	833	8352	847	2 00p	827	11 00a	20	C
828	836	833	832	832	833	8282	840	4 00p	803	11 00a	37	A
808	800	792	812	844	820	8239	844	3 25p	792	9 00p	52	S°
811	811	813	809	815	826	8150	827	4 00a	802	11 00a	25	S°
814	816	814	814	818	815	8136	836	2 00p	798	9 00a	38	A
8171	8185	8188	8186	8203	8215	8188	8075		7740		.03 335	

明治三十年三月

鉛直磁力 0.34.....+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	351	351	357	354	351	354	357	347	327	313	306	315	319	337	347	347	352	354
2	352	352	351	353	354	353	358	353	346	337	329	335	343	349	352	367	368	368
3	365	364	363	364	365	369	369	365	359	348	341	351	361	369	376	373	369	369
4	363	367	367	367	369	373	375	372	363	350	351	358	364	371	361	369	371	370
5	373	367	371	374	371	379	379	372	366	358	346	336	362	370	372	371	370	370
6	370	373	374	374	376	382	379	374	370	364	355	360	370	378	379	380	379	378
7	369	371	370	371	373	375	381	375	364	351	358	360	381	383	378	377	370	370
8	369	367	367	368	369	374	378	372	360	348	331	354	357	368	367	367	367	359
9	368	372	367	366	371	379	386	373	369	364	358	358	363	366	368	373	373	372
10	376	376	374	371	373	374	377	370	364	357	346	340	343	347	363	365	364	364
11	369	369	370	370	372	375	378	372	374	359	333	340	353	362	364	366	369	369
12	371	373	369	369	370	373	376	371	362	351	345	355	359	371	371	370	366	362
13	367	367	366	368	371	373	376	376	357	346	345	355	385	395	394	391	383	379
14	392	392	390	390	389	391	393	393	388	379	376	377	382	387	391	392	391	392
15	384	387	386	383	382	384	384	383	379	370	369	370	375	381	386	381	380	382
16	383	384	382	383	381	384	384	379	364	350	345	351	363	375	386	383	381	375
17	375	376	374	378	376	380	380	377	366	351	350	359	380	379	385	384	377	375
18	373	370	370	371	374	375	378	370	360	344	343	350	365	375	373	373	372	369
19	371	373	374	375	377	377	376	367	359	335	332	...	...	...	...	...	...	...
20	374	377	376	376	375	382	383	380	368	349	344	353	361	369	371	372	371	369
21	370	370	371	373	372	377	380	380	371	360	353	360	365	370	376	379	379	376
22	369	367	367	367	368	374	376	372	366	358	350	348	359	367	371	372	375	372
23	367	368	369	367	364	370	373	371	361	343	343	356	361	370	378	376	366	372
24	366	365	366	366	365	367	373	371	362	353	349	355	362	366	370	369	368	366
25	370	366	363	356	361	368	374	372	356	340	331	331	344	356	359	366	365	362
26	362	361	360	361	359	362	363	361	357	344	336	339	350	357	360	360	360	360
27	358	358	357	357	357	360	361	359	352	338	340	357	359	360	358	353	353	354
28	352	354	352	352	355	360	361	354	348	336	324	330	335	348	359	360	358	355
29	354	354	353	349	359	353	357	344	336	329	329	329	332	343	354	357	352	349
30	345	346	352	354	344	350	352	350	343	328	320	332	335	352	354	348	346	341
31	340	342	341	344	341	344	344	337	328	320	325	328	340	347	347	340	340	340
平均 Mean	3667	3671	3667	3668	3672	3707	3729	3681	3592	3475	3420	3481	3576	3656	3690	3694	3678	3664

空中電氣

1	12	18	24	29	33	24	0	-24	-33	8	16	0	16	16	8	20	13	-6
2	26	54	74	70	39	54	47	71	65	31	56	52	54	50	50	45	53	66
3	77*	71*	60*	58*	83*	112*	+	+	+	108*	77*	77*	54*	39*	52*	33*	51*	58*
4	...	...	...	...	...	...	260*	209*	138*	105*	86*	73*	70*	59*	46*	46*	44*	47*
5	...	...	...	...	...	...	...	...	...	...	...	...	40*	±	±	±	±	+
6	81	78	116	89	54	88	84	46	64	51	54	57	24	53	50	43	78	86
7	113*	113*	79*	87*	105*	117*	117*	120*	98*	56*	29*	22*	19*	22*	29*	29*	33*	-16*
8	-30*	11*	27*	38*	40*	-52*	-166*	-65*	-89*	35*	33*	42*	33*	37*	34*	27*	30*	33*
9	...	...	...	...	...	...	...	...	...	...	...	...	30*	30*	27*	26*	36*	32*
10	51	47	±	±	36	33	39	38	32	40	41	39	26	25	23	20	23	28
11	36	38	40	42	47	64	81	64	17	9	26	26	17	27	8	18	14	29
12	36	32	33	43	39	46	75	75	42	21	36	36	47	36	22	2	-5	26
13	79	81	89	69	60	58	87	56	-67	-124	-42	15	-11	-69	-34	10	8	11
14	46	51	58	63	79	127	154	166	99	59	54	62	66	65	65	65	56	69
15	123*	115*	111*	111*	139*	±	±	±	−	−	−	±	45*	35*	45*	28*	33*	58*
16	58	81	89	86	83	96	103	37	54	88	28	46	31	30	29	30	31	28
17	29	23	21	23	34	34	29	26	32	23	20	14	10	17	11	11	10	14
18	18	23	27	28	33	31	65	35	14	-2	-6	-5	-16	-6	-2	2	10	10
19	4*	3*	2*	4*	-5*	-4*	11*	0*	-3*	-4*	-101*	-160*	-177*	-191*	-138*	-143*	-178*	-137*
20	-100*	-61*	-33*	-28*	-38*	-81*	-89*	-50*	-3*	-4*	-4*	-7*	-10*	-8*	-2*	0*	1*	9*
21	-5	-5	-5	-7	-8	-10	-14	-5	-8	-5	-5	-4	-3	-4	-2	0	5	4
22	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
23	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	11*	10*	6*	1*	-8*	-16*
24	70	64	69	87	149	249	225	108	-65	-144	-60	-35	-51	-87	-154	-103	-30	22
25	104	85	73	91	145	237	308	232	123	100	59	38	57	33	43	49	70	60
26	93*	27*	24*	44*	34*	-11*	-105*	-189*	-192*	−	-164*	±	99*	64*	126*	137*	127*	159*
27	-69*	-124*	51*	28*	84*	84*	132*	110*	105*	58*	22*	18*	42*	30*	41*	60*	60*	63*
28	31*	14*	14*	42*	58*	84*	90*	-17*	-172*	-181*	-88*	39*	51*	72*	71*	37*	3*	-81*
29	190	202	192	151	189	272	340	238	76	43	42	49	31	31	39	36	41	50
30	197	229	146	98	67	95	94	110	98	116	-39*	12	13	28	53	39	53	-39*
31	85	99	71	34	40	59	46	34	20	10	20	23	71	38	3	-4	14	29
平均 Mean	65.5	70.6	69.8	62.2	65 8	91.6	103.7	76.9	33.1	19.1	21.2	25.0	22.5	16.6	12.5	16.6	26.1	32.9

MARCH 1897.

P. M.					夜半	平均	最大		最小		較差	記事
7_p	8_p	9_p	10_p	11_p	M. N.	Mean	Maximum		Minimum		Range	Remarks.

VERTICAL MAGNETIC INTENSITY.

							h m		h m			
355	354	357	352	351	352	3442	359	7 08 a	306	11 00 a	.03 53	S°
368	369	368	368	367	369	3554	369	8 00 p	329	11 11 a	40	A
369	399	370	369	369	364	3646	376	3 00 p	341	11 00 a	35	C
369	374	377	372	369	371	3672	381	6 16 a	349	10 48 a	32	S°
372	374	377	374	373	368	3685	384	6 20 a	336	Noon	48	S° morning C afternoon
377	377	377	375	375	374	3737	382	6 00 a	355	11 00 a	27	C
371	372	371	371	372	373	3711	384	1 55 p	350	10 27 a	34	S°
367	375	375	373	370	371	3655	378	7 00 a	330	11 10 a	48	S°
374	366	366	373	379	378	3701	388	7 17 a	354	11 25 a	34	A
364	374	373	374	375	375	3658	387	1 40 a	338	0 35 p	49	A
367	369	371	372	375	382	3667	383	11 47 p	333	11 00 a	50	A
372	372	375	373	372	370	3674	376	7 00 a	344	10 38 a	32	C
388	391	391	394	392	392	3768	397	2 18 p	344	10 50 a	53	A
392	392	395	394	388	387	3889	395	9 00 p	376	11 00 a	19	C
383	387	387	387	387	388	3819	392	2 22 a	368	11 42 a	24	C
377	380	380	381	381	377	3754	386	3 00 p	345	11 00 a	41	C
377	378	375	375	376	376	3741	...	...	...	...	...	C
373	376	375	374	373	374	3687	378	7 00 a	349	10 42 a	29	C
375	377	380	379	380	380	3693	...	...	...	...	...	C
372	375	376	376	375	375	3712	385	6 34 a	344	11 00 a	41	C
377	376	377	376	376	372	3723	380	7 00 a	353	11 00 a	27	C
376	376	376	375	376	375	3688	376	9 00 p	348	Noon	28	C morning; A afternoon
373	377	379	376	376	373	3679	379	9 00 p	341	10 09 a	38	A
368	370	369	370	369	379	3660	380	11 52 p	349	11 00 a	31	C
369	370	370	368	368	367	3605	378	0 06 a	329	11 10 a	49	S° Early in morning
361	361	364	361	362	361	3576	364	9 00 p	335	11 26 a	29	C
357	357	358	359	358	358	3557	361	7 00 a	338	10 00 a	23	C
355	359	356	358	357	358	3515	361	7 00 a	323	11 00 a	38	A
344	345	348	360	372	355	3482	372	11 00 p	324	11 25 a	48	S°
348	348	348	347	350	355	3453	356	2 30 p	320	11 00 a	36	S°
348	347	347	347	348	344	3404	348	7 00 p	320	11 00 a	28	A
3690	3705	3712	3717	3710	3707	3651	3771		3404		.03 367	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
12	20	-24	16	±	12	9.2	177	10 07 p	-110	10 42 p	187	●° 8.p
95	116	66	70	63	83	60.4	140	7 20 p	-27	0 22 a	167	-●°-✳1.a -✳°4.a -4.20a
...	...	...	...	...	...	...	...	...	...	...	...	—
68*	86*	84*	93*	117*	...	...	...	...	...	...	...	●° 10.40.p ±
+	59*	49*	48*	56*	70*	...	...	...	...	...	...	-●^-● 0.35a -●°1.20a -7.28a, ⁄4p-
104	94	216	159	188	111	86.2	281	9 07 p	-11	0 15 p	292	—⁄-5.a
141*	-174*	-98*	10*	-22*	28*	...	141	5 35 a	-211	7 35 p	352	●°0.35p -0.55p, ●°5p -●5.50p-
...	...	...	...	...	...	...	...	...	...	...	...	-●-●°0.40a -9.45a.
40*	49*	41*	57*	52*	41*	...	...	..	...	...	...	●°8·50a -●11.40a—
29	29	30	31	34	36	33.2	130	3 36 a	-132	3 55 a	262	-●-●°5.50a -6.45a, ⁄10.a -8.p, 11.p,
39	39	44	57	51	44	36.5	92	7 31 a	-33	3 18 p	125	⁄1.a, 4.a, 9.a-10.a
35	53	84	78	78	84	43.9	107	11 12 p	-21	4 35 p	128	—
42	25	28	28	44	49	20.5	104	6 56 a	173	9 43 a	277	⁄ 11.a
99	105	118	137	172	148	91.0	251	6 35 a	20	11 00 a	231	
84*	97*	97*	111*	73*	88*	...	172	5 18 a	216	...	388	●°1.50a -0.20p ●°10.50p-
26	27	27	31	31	30	50.0	138	6 35 a	23	11 00 a	115	-●°-0.50a ●°5a -11.10a ●°4.19p -7.20p
17	12	16	16	14	24	20.0	40	5 40 a	3	1 45 p	37	●°5.08p ●°9.30p
10	10	11	6	6	5	12.8	75	6 08 a	-17	1 15 p	92	— [8.20p-
-136*	-104*	-65*	-93*	-46*	-45*	...	42	7 07 a	-219	...	261	✳°●°6.50a -●°7.25a-●0.30p-✳°●°7.50p -●°
12*	18*	0*	0*	1*	-6*	...	28	7 52 p	-122	1 00 a	150	-●°-✳°●5.40a-✳6.15a-✳△7.15-9.45a●°6.50p-11.45p
2	.2	4	1	0	-8	-3.3	21	7 20 a	-33	6 48 a	54	●°5a-●°✳°5.50a-●°7.50a-830a
0*	0*	0*	0*	0*	0*	...	...	..	...	...	...	—
-19*	-13*	7*	40*	75*	86*	...	...	...	...	...	...	—
65	95	114	122	121	116	39.5	317	6 52 a	-20.0	4 00 p	526	⁄ 10a Noon 2.p-4p
49	46	98	60	30	16	9.9	344	7 36 a	-19	11 35 a	363	●° 11.5 p-
110*	-179*	-23*	-104*	-81*	-104*	...	187	3 20 p	...	...	...	-●°-
77*	-4*	23*	41*	50*	51*	...	156	7 25 a	162	1 12 a	318	-●°-
25*	89*	131*	168*	168*	214*	...	228	11 50 p	-266	9 30 a	494	-●°-7.20p
62	76	109	157	175	154	122.7	361	7 12 a	25	1 42 p	336	
41	87	73	65	77	81	85.1	267	2 00 a	-84	11 20 a	351	●°8.30a -9.54p
47	75	69	113	74	68	47.4	136	9 55 p	-41	3 40 p	177	●°10, 10a -10.30a ⁄ 8a -6p
45 5	53.6	63.7	67.5	72.4	61.9	49.8						

明治三十年四月

偏角 4° W +

日 Day	午前 A. M. 1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	正午 Noon	午後 1p	2p	3p	4p	5p	6p
1	28.0	28.6	28.7	28.8	29.1	30.2	28.8	27.7	25·9	28.0	30.9	33.1	33.1	32.9	31.8	30.2	28.8	29.4
2	28.8	28.4	29.0	29.9	28.8	28.0	26.5	25.9	24.6	30.5	33.2	36.0	37.6	36.4	33.5	31.9	31.6	31.3
3	29.3	29.0	29.0	28.7	28.8	28.1	26.2	24.8	24.9	27.5	31.3	33.5	34.1	33.7	32.1	30.5	29.1	29.6
4	29.6	29.1	29.1	29.1	29.3	29.6	26 2	24.6	24.5	25.8	29.4	32.8	35.0	34.2	32.1	30.2	28.4	29.4
5	29.3	29.1	29.0	29.0	29.3	28.6	27.7	25.9	25.6	26.5	29.7	31.5	32.8	33.1	32.1	30.9	29.6	29.6
6	28.5	28.7	30.4	27.6	27.7	28.7	28.5	27.6	27.6	29.8	30.8	32.9	33.9	33.9	33.0	32.2	30.7	30.1
7	27.3	28.2	28.9	29.0	29.8	30.8	29.3	28.6	27.4	27.9	30.7	32.0	33,6	33.7	32.6	31.4	29.6	29.3
8	29.2	29.2	30.1	29.2	29.3	30.7	28.6	26.4	26.3	27.1	29.6	32.0	33,3	33.6	32.8	30.9	30.4	29.3
9	29.0	28.3	28.0	28.0	28.1	28.6	28.0	27.5	26.2	26.3	27.7	30.8	32.6	32.8	32.7	31.6	30.2	29.6
10	29.3	29.0	28.3	28.4	29.1	29.4	29.1	27.5	27.4	27.2	27.5	29.4	31.9	32.9	32.9	32.4	30.5	31.6
11	29.4	29.4	29.5	29.5	29.5	30.1	30.0	28.8	27.8	28.1	29.2	31.0	32.6	32.8	32.3	30.7	30.3	30.6
12	29.4	29.1	29.1	29.2	29.4	29.2	28.1	26.6	25.6	26.6	28.5	31.0	32.8	33.5	33.2	32.3	31.0	30.0
13	29.3	29.5	29.3	29.3	29.3	29.5	28.2	26.4	25.3	26.7	29.8	32.1	32.6	33.0	32.6	31.0	30.1	29.6
14	29.4	29.6	29.6	29.4	29.9	29.7	28.6	27.4	28.4	28.2	31.5	34.8	35.4	3.56	33.0	32.5	31.2	30.5
15	30.2	29.7	29.6	29.4	29.6	28.6	27.8	26.5	27.0	29.0	31.5	33.4	33.8	33.2	32.5	30.9	29.7	29.7
16	30.3	29.8	29.5	29.7	29.5	28.7	27.2	26.2	25.7	27.2	29.4	30.6	31.4	31.9	31.6	30.6	29.8	29.8
17	29.4	29.0	29.1	28.4	29.5	29.3	29.3	29.1	29.7	29.4	30.6	33.1	35.4	34.1	33.8	32.8	29.7	30.6
18	28.5	28.5	29.1	28.9	29.1	28.3	28.2	28.5	28.9	30.1	31.7	32.9	33.6	33.6	31.7	30 8	29.9	29.9
19	29.6	29.5	30.0	28.9	29.5	28.7	28.1	27.3	27.4	28.3	30.2	32.4	33.4	33.7	32.5	31.4	30.2	30.3
20	29.9	29.7	28.1	29.0	28.4	29.6	29.3	28.9	31.5	32.7	31.2	31.2	31.6	31.8	34.3	33.5	32.7	31.2
21	30.6	30.9	29.0	28.7	29.7	30.0	30.6	30.4	30.1	30.9	32.2	33.1	33.1	32.9	31.9	31.3	30.9	30.9
22	30.6	30 3	30.1	30.3	30.3	30.0	28.8	27.7	27.5	29.4	30.7	33.6	33.8	33.6	32.3	31.6	32.8	31.0
23	29.5	29.5	30.1	28.5	28.6	27.6	27.0	25.9	25.8	28.0	31.0	34.3	34.8	34.3	33.9	32.6	31.3	30.7
24	28.8	27.8	27.0	30.5	30.5	30.4	30.1	30.1	29.9	31.7	33.5	33.2	33.2	34.0	34.2	32.6	29.5	28.2
25	27.4	27.9	27.4	29.0	29.2	29.2	28.1	26.7	23.6	28.9	31.2	31.9	34.3	34.4	33.1	32.8	30.3	28.6
26	29.7	29.4	30.3	29.3	29.3	28.5	28.4	28.6	29.0	30.4	31.7	33.1	34.4	31.9	31.7	30.4	30.3	30.4
27	29.7	29.1	29.1	30.3	29.7	29.0	25.4	27.5	28.5	30.1	30.7	32.0	33.9	33.5	32.8	31.8	28.8	29.6
28	29.4	29.4	29.1	29.1	29.2	29.1	27.8	27.2	27.5	28.8	30.8	32.9	33.6	33.3	32.7	21.9	31.0	31.0
29	29.2	29.2	29.4	29.2	29.1	28.5	27.3	25.9	26.2	28.3	31.9	33.3	33.8	32.4	30.7	29.8	29.5	29.5
30	29.3	29.2	29.0	29.0	29.0	29.0	27.6	25.8	26.4	29.3	31.4	32.4	33.6	33.4	29.8	30 3	29.8	29.6
平均 Mean	29.27	29.14	29.13	29.11	29.25	29.19	28.27	27.27	27.24	28.62	30.65	32.21	33.63	33.47	32.54	31.46	30,26	30.03

水平磁力 0.29……+

1	817	819	817	812	809	819	817	806	797	793	801	802	816	821	822	811	808	808
2	800	800	801	812	808	822	819	804	790	778	766	747	748	751	755	766	735	730
3	790	794	793	800	799	804	805	799	786	777	775	784	808	818	822	821	818	814
4	812	812	811	811	811	817	818	811	804	786	786	803	813	824	829	830	827	810
5	805	809	813	813	809	814	809	809	804	797	787	791	804	817	819	823	818	810
6	821	824	813	829	822	823	817	806	778	753	758	767	781	792	798	795	801	799
7	817	800	807	814	815	827	832	819	810	814	804	809	805	810	818	821	815	807
8	806	811	816	818	818	819	830	822	811	808	793	790	790	805	813	822	822	816
9	822	824	830	828	834	834	830	816	809	803	807	805	825	826	824	824	822	812
10	819	823	827	823	823	822	823	824	814	809	819	823	813	819	826	801	794	783
11	806	810	810	813	816	820	825	830	828	824	820	819	822	826	829	824	821	812
12	819	820	820	823	824	828	830	827	818	813	807	810	820	821	831	830	824	818
13	830	831	829	830	831	833	833	830	818	810	810	818	830	831	823	824	826	818
14	819	821	825	825	822	828	826	817	799	797	784	799	802	804	807	793	787	795
15	811	826	824	816	815	818	816	809	795	787	791	802	815	82.)	820	820	820	819
16	818	816	820	816	819	822	822	818	811	806	811	820	827	827	827	828	826	832
17	816	809	816	823	824	833	827	816	805	798	786	782	778	786	792	791	810	794
18	827	811	814	812	813	817	817	811	810	811	816	827	827	831	829	828	826	821
19	811	810	822	815	808	812	815	805	793	786	788	799	810	816	821	820	813	808
20	828	822	845	820	827	834	830	813	797	796	811	832	842	860	826	802	795	772
21	761	780	787	787	782	793	792	794	789	784	776	782	792	803	802	805	860	792
22	795	794	794	795	796	799	797	792	784	781	785	801	816	826	826	817	810	804
23	804	807	808	814	820	828	830	826	816	811	810	822	836	851	859	833	819	809
24	791	800	787	785	793	824	806	795	788	773	768	786	793	785	793	794	802	805
25	829	812	800	789	786	784	791	792	775	791	795	796	791	782	785	779	796	792
26	805	806	810	806	801	806	803	802	800	806	816	819	821	825	824	814	803	794
27	802	803	801	806	810	806	805	799	794	797	800	799	794	792	800	804	803	797
28	803	805	805	802	804	801	804	793	786	779	777	793	809	820	823	816	801	792
29	805	804	809	807	807	808	803	794	787	788	790	802	808	812	818	818	814	811
30	801	805	805	805	807	815	812	801	792	793	805	816	818	820	827	828	821	812
平均 Mean	8100	8103	8120	8116	8118	8170	8161	8093	7996	7950	7947	8015	8085	8140	8163	8127	8092	8029

APRIL 1897.

MAGNETIC DECLINATION

P. M. 7p	8p	9p	10p	11p	夜半 M. N.	平均 Mean	最大 Madximum		最小 Minimum		較差 Range	記事 Remarks.
29.4	29.9	29.6	29.7	29.1	29.0	29.61	33.2	h m 1 50p	25.9	h m 9 00a	7.3	S°
30.6	30.6	29.4	29.1	29.3	29.1	30.42	37.6	1 00p	24.3	8 45a	13.3	S
30.0	29.9	29.9	29.9	30.0	29.9	29.57	34.1	1 00p	24.4	8 20a	9.7	A
30.3	30.5	29.9	30.2	29.4	29.6	29.51	35.0	1 00p	23.3	8 35a	11.7	S° morning, A afternoon
30.3	29.1	29.6	30.2	29.9	29.1	29.48	33.1	2 00p	25.6	9 00a	7.5	A.
30.4	30.4	30.3	30.0	29.5	29.2	30.10	34.1	1 20p	26.6	8 40a	7.5	S° morning, C afternoon
29.3	29.6	29.8	29.3	28.8	28.5	29.82	33.7	2 00p	26.9	9 30a	6.8	S° morning, A afternoon
29.2	29.2	29.0	29.3	29.3	29.2	29.72	33.9	1 50p	26.3	9 00a	7.6	A
29.4	29.9	28.7	29.4	29.4	29.4	29.26	32.9	2 00p	25.8	9 18a	7.1	A
29.4	30.9	30.6	27.5	29.4	29.4	29.62	33.1	2 40p	27.2	10 00a	5.9	S°
30.3	30.0	29.7	29.5	29.5	29.5	30.00	33.0	1 30p	27.8	9 00a	5.2	C
30.0	29.8	29.5	29.5	29.4	29 2	29.67	33.5	2 00p	25.6	9 00a	7.9	C
28.6	29.6	29.6	29.6	29.6	29.3	29.58	33.0	2 00p	25.3	9 00a	7.7	C morning, A afternoon
30.9	30.5	29.6	29.7	30.2	30.0	30.65	35.6	2 00p	27.4	8 00a	8.2	A
30.0	30.3	30.0	30.2	30.0	30.0	30.11	33.6	1 00p	26.5	8 00a	7.1	C
30.4	31.2	30 1	29.7	29.5	29.1	29.54	31.9	2 00p	25.7	9 00a	6.2	A
30.6	28.1	29.8	30.1	30.0	29.1	30.00	36.1	1 20p	28.4	4 01a	7.7	S°
30.7	30.4	29.2	29.9	30.2	29.9	30.10	33.6	2 00p	27.3	7 12a	6.3	A
30.0	30.0	30.3	30.3	30.0	29.9	30.08	33.7	2 00p	26.5	8 18a	7.2	A
31.5	30.3	33.0	33.7	31.5	34.1	31.20	34.3	3 00p	27.7	6 22a	6.6	S
30.9	31.0	30.7	30.7	30.7	30.7	30.91	33.4	1 04p	28.4	2 40a	5.0	A
30.7	30.4	30.1	30.1	30.0	30.0	30.65	33.8	1 00p	27 2	8 35a	6.6	C
30.4	30.2	30.2	30.1	30.2	30.1	30.19	34.8	1 00p	25,7	9 00a	9.1	C, S° Late at night
30.4	29.4	30.2	30.5	30.1	28.2	30.53	34.6	2 13p	27.0	3 00a	7.6	S°
31.1	30.6	30.3	29.3	30.3	30.3	30.04	34.7	1 48p	26.1	8 05a	8.6	A
30.4	30 4	30.4	29.9	29.0	29.7	30.27	34.4	1 00p	28.4	7 00a	6.0	A
29.1	30.3	30.3	30.0	30.1	29.7	30.17	33.9	1 00p	27.1	8 24a	6.8	A
30.7	30.5	30.1	30.0	29.4	29,2	30.15	33 8	1 15p	26.7	7 42a	7.1	A
30.0	29.8	29.7	29.5	29.4	29,1	29.61	34.0	1 09p	26.0	8 20a	8.0	C
29.6	29.6	29.6	29.6	29.5	29.5	29.64	33.6	1 00p	25.8	8 00a	7.8	C
30.15	30.08	29.97	29.88	29.76	29.63	30.01	34.00		26.43		7.57	

HORIZONTAL MAGNETIC INTENSITY

								h m		h m	.03	
794	785	791	801	806	803	8073	822	3 00p	785	8 00p	37	S°
758	759	767	779	775	787	7774	822	6 00a	718	5 25a	104	S
812	812	814	812	812	807	8032	830	2 14p	775	11 00a	55	A
785	785	782	786	796	803	8063	830	4 00p	779	7 25p	51	S° morning, A afternoon
810	813	810	806	806	813	8087	823	4 00p	785	11 25a	38	A
799	804	805	811	817	807	8008	830	1 20a	746	9 38a	84	S° morning, A afternoon
803	797	808	811	814	810	8120	853	0 42a	792	7 40p	61	A
821	822	823	821	818	819	8139	830	7 00a	787	0 47p	43	A
814	809	827	816	816	816	8197	836	5 23a	799	11 25a	37	A
797	774	785	805	790	802	8099	829	2 10a	770	8 10p	59	S°
817	817	820	819	818	817	8193	831	8 00a	802	0 00a	29	C
820	823	826	825	827	828	8222	831	3 00p	807	11 00a	24	C
815	792	802	810	816	818	8212	836	6 15a	808	10 35a	28	C morning, A afternoon
793	795	801	796	802	810	8061	828	6 00a	783	10 52a	45	A
818	816	818	820	822	820	8141	630	2 10a	784	10 20a	46	C
830	822	813	826	823	820	8208	832	6 00p	806	10 00a	26	A
...	...	...	...	...	...	8048	833	6 00a	774	1 20p	59	S°
810	809	823	811	805	805	8171	831	2 00p	809	7 50p	22	A
810	819	815	818	827	824	8110	832	6 00a	810	1 20p	22	A
782	770	741	735	714	747	8013	885	1 50p	712	10 52a	173	S
789	790	791	794	793	793	7816	806	2 35p	736	0 08a	70	A
802	800	804	805	803	806	8013	826	2 42p	779	10 33a	47	C
813	817	812	784	778	790	8165	861	3 25p	767	10 50p	94	C, S° Late at night
796	799	790	789	693	804	7933	824	6 00a	768	11 00a	56	S°
775	783	791	803	198	806	7927	829	1 00a	775	9 00a	54	A
794	797	797	803	814	802	8070	826	2 24p	794	5 53p	32	A
807	797	801	804	806	803	8012	810	5 00a	791	1 37p	19	A
798	803	809	809	806	804	8017	823	3 00p	773	10 14a	50	A
811	812	814	808	802	802	8056	819	3 27p	786	9 36a	33	C
806	806	810	810	805	802	8092	830	3 36p	789	9 18a	41	C
8027	8009	8031	8040	8035	8058	8072	8309		7796		.03 513	

明治三十年四月

鉛直磁力 0.34.....+

日 Day.	午前 A. M. 1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	正午 Noon	午後 1p	2p	3p	4p	5p	6p
1	342	340	343	339	341	347	343	341	320	307	306	319	328	337	342	338	337	337
2	334	334	336	342	339	347	336	323	306	295	295	295	312	320	331	337	329	327
3	340	340	339	339	339	340	336	323	307	297	298	314	324	328	328	328	329	327
4	328	326	326	326	327	334	334	325	312	300	301	312	326	331	334	332	326	319
5	329	329	329	327	330	332	331	324	319	305	302	305	319	327	328	334	330	323
6	329	331	324	324	327	331	329	323	302	287	295	315	324	334	335	340	341	337
7	338	329	334	338	340	347	347	338	330	323	319	317	320	327	335	343	342	338
8	340	340	340	340	344	344	350	344	334	329	321	320	320	336	339	351	347	344
9	343	343	344	343	343	346	343	336	329	314	318	309	322	324	330	332	333	333
10	338	338	339	338	338	339	343	343	333	321	321	319	316	326	333	326	328	333
11	352	350	348	349	352	350	353	349	341	331	323	323	326	330	336	334	336	336
12	344	344	344	344	346	349	349	345	337	331	324	318	331	337	346	347	347	344
13	348	348	347	347	347	349	352	347	333	321	321	335	343	347	343	343	346	343
14	350	350	353	350	350	355	354	346	334	330	325	335	342	...	...	342	342	346
15	352	357	353	347	349	349	348	340	328	323	333	344	349	351	349	349	345	344
16	345	345	347	343	347	350	347	341	331	323	322	329	336	339	341	344	344	347
17	336	333	338	342	345	346	342	336	325	319	313	317	324	334	339	339	352	340
18	350	341	343	343	347	347	346	339	333	328	333	337	341	344	343	343	342	341
19	343	343	348	340	340	347	343	337	328	328	330	337	342	344	348	348	346	343
20	349	345	355	341	348	353	352	350	341	342	346	342	345	354	336	333	341	333
21	362	362	361	357	349	359	352	353	350	344	340	341	348	352	353	352	351	348
22	352	350	350	350	353	354	354	346	337	333	332	333	342	343	339	343	344	341
23	347	348	354	355	356	356	...	...	...	...	...	339	348	356	357	341	341	340
24	352	356	346	350	355	364	356	350	343	333	333	345	350	348	350	357	359	357
25	366	353	348	343	351	348	348	345	335	343	352	349	348	341	349	351	361	354
26	356	355	356	352	353	353	347	343	337	338	338	334	341	352	352	346	343	345
27	356	354	354	357	359	357	354	349	344	341	344	344	342	344	352	355	353	350
28	352	354	354	353	357	355	352	344	337	328	332	344	350	347	347	348	346	345
29	353	354	355	354	357	358	355	346	338	335	332	342	346	351	354	354	352	352
30	353	355	355	355	359	361	357	347	336	333	340	346	344	346	349	348	348	347
平均 Mean	3460	3449	3454	3443	3463	3489	3467	3404	3303	3235	3238	3286	3350	3397	3420	3426	3427	3405

空中電氣

1	94	142	77	114	296	311	199	160	137	100	43	73	60	34	8	8	13	23
2	-125*	-20*	6*	-80*	-77*	-92*	-133*	-26*	10*	0*	9*	10*	3*	3*	4*	6*	11*	19*
3	6*	14*	-3*	16*	6*	37*	6*	20*	29*	—	7*	11*	17*	—	+	—	+	+
4	12	7	17	22	19	59	77	67	54	43	32	24	25	19	19	17	23	32
5	90	88	57	63	63	73	89	67	63	51	38	22	12	26	22	18	19	24
6	105*	96*	114*	163*	140*	137*	146*	96*	55*	47*	29*	9*	—	±	+	±	±	±
7	—	—	—	±	—	32*	41*	18*	26*	29*	40*	35*	9	-38*	-36*	-22*	-6*	26*
8	120	67	108	73	102	175	111	88	97	20	18	35	23	15	0	1	3	23
9	—	—	±	+	±	—	—	—	...	—	—	—	±	±	±	—	—	—
10	50	68	69	63	50	144	38	44	50	41	69	46	6	4	0	0	3	21
11	38	41	48	53	85	177	147	83	40	15	0	4	-19	-16	-31	-24	-2	13
12	49	40	41	41	55	109	88	32	24	6	-8	35	-37	21	-1	0	0	0
13	50	50	41	38	56	83	91	71	25	-18	15	26	38	30	24	18	28	32
14	40	35	37	35	55	53	74	53	47	17	72	71	77	19	41	12	16	22
15	80*	68*	71*	81*	77*	95*	124*	96*	83*	47*	33*	7*	-41*	-33*	-24*	-13*	-15*	9*
16	-6*	-11*	-17*	-21*	-10*	22*	28*	39*	34*	25*	9*	12*	21*	10*	-21*	-1*	6*	18*
17	107	65	56	65	95	137	162	123	71	53	36	30	20	18	13	18	16	19
18	48*	48*	45*	40*	-52*	104*	-158*	-182*	113*	-3*	7*	15*	10*	0*	-2*	0*	7*	17*
19	9	16	12	9	18	31	24	20	9	7	6	0	6	16	18	27	27	30
20	40	43	47	52	64	69	67	57	46	36	28	...	15	15	15	19	23	35
21	66	69	78	73	90	111	102	79	48	33	34	24	15	9	6	7	16	27
22	31	20	37	28	32	31	27	19	17	11	9	4	14	-10	-49	-10	29	30
23	112	115	148	230	164	247	286	128	71	44	41	8	10	13	16	18	25	30
24	43	47	52	64	90	138	90	64	57	24	52	34	28	21	9	24	28	41
25	24	0	40	47	88	115	58	36	65	50	36	29	22	22	2	43	40	22
26	32	41	37	34	64	112	101	75	71	52	37	39	...	7	9	7	7	22
27	31	31	31	31	44	46	33	27	25	15	15	21	17	29	0	0	11	12
28	—	±	—	±	—	—	—	—	27*	27*	16*	15*	27*	14*	14*	20*	24*	18*
29	42	36	52	60	83	110	108	55	34	26	27	40	36	24	36	21	4	8
30	49	52	52	60	77	168	191	142	88	51	6	-6	-47	-39	-54	-47	-20	0
平均 Mean	53.8	51.0	54.1	59.8	80.5	119.0	103.6	71.0	54.2	32.2	28.5	28.0	16.0	8.3	5.0	8.4	14.8	22.2

APRIL 1897

P. M.					夜半	平均	最大		最小		較差	記事
7_p	8_p	9_p	10_p	11_p	M. N.	Mean	Maximum		Minimum		Range	Remarks.

VERTICAL MAGNETIC INTENSITY

								h m		h m		
334	333	337	343	343	339	3348	347	6 00a	300	11 40a	.03 47	S°
350	353	350	352	343	349	3306	354	7 35p	292	11 15a	62	S
327	330	330	330	330	328	3271	346	0 00a	295	10 30a	51	A
315	321	321	326	333	334	3237	334	6 00a	298	9 45a	36	S° morning, A afternoon
326	327	327	327	327	327	3243	334	4 00p	298	10 45a	36	A
337	339	340	341	341	334	3275	343	4 45p	281	8 40a	62	S° morning, A afternoon
338	337	346	346	344	341	3357	350	0 45p	314	11 15a	36	S° morning, A afternoon
345	345	345	344	343	343	3395	351	4 00p	320	10 37a	31	A
334	335	344	340	339	339	3340	347	8 50p	304	11 50a	43	A
342	335	343	348	344	348	3347	356	10 16p	316	1 00p	40	S°
344	343	345	345	344	343	3410	353	7 00a	315	NOON	38	C
344	343	346	345	347	345	3417	349	7 00a	316	11 50a	33	C
341	335	344	350	351	350	3430	352	7 00a	317	10 32a	35	C morning, A afternoon
346	347	350	347	351	351	3453	355	6 00a	325	11 00a	30	A
345	344	345	345	345	345	3449	361	2 18a	323	10 00a	38	C
337	337	334	337	337	333	3390	350	6 00a	322	11 00a	28	A
…	…	…	…	…	…	3344	352	5 00p	313	11 00a	39	S°
340	340	345	346	338	340	3412	347	6 00a	328	10 00a	19	A
345	349	348	350	353	348	3428	354	10 15p	328	10 00a	26	A
343	343	341	347	341	354	3448	355	3 00a	333	4 00p	22	S
348	351	352	355	352	352	3518	367	2 18a	340	11 00a	27	A
345	348	354	354	354	351	3459	354	6 00a	332	10 00a	22	C
347	351	351	340	341	357	3487	…	…	…	…	…	C, S° late at night
357	362	357	355	358	358	3521	366	6 12a	333	10 00a	33	S°
349	353	360	361	358	360	3511	372	1 15a	335	9 00a	37	A
350	353	357	358	362	355	3490	368	10 40p	333	10 30a	35	A
356	353	356	356	354	353	3515	359	5 00a	341	10 00a	18	A
351	354	357	351	352	350	3483	358	4 56a	326	10 13a	32	A
354	356	356	353	352	350	3504	358	6 00a	332	11 00a	26	C
348	351	351	351	348	348	3490	361	6 00a	333	10 00a	28	C
3427	3438	3459	3463	3457	3457	3409	3536		3187		.03 348	

ATMOSPHERIC ELECTRICITY

								h m		h m		
48	58	37	-48*	-85*	-162*	96.9	368	5 40a	-215	11 00p	583	●°9.30p– ●10.10p–
31*	43*	38*	40*	29*	17*	…	80	9 22p	-212	7 15a	293	–●–●°10.45a–5.20p ●°9,30p–
+	+	–	–		–	…	180	7 18p	-207	9 25a	387	–●°–9.25a ↘E 7.p–7.40p ●°8p–
46	70	90	96	96	107	44.7	116	11 40p	-96	0 00a	212	–●°3.55a
33	44	62	91	102	108	55.2	117	11 22p	4	1 00p	113	●°0.25p ↘W 10.30p
+	±	±	–	–	–	…	190	4 50a	-216	M.N	406	●°1.10p–●8.15p–
35*	44*	54*	59*	47*	73*	…	98	11 50p	…	…	…	–●–●°3.20a–9.20a ⁄ 3.a–4.a
44	44	61	51	31	–	57.0	220	6 12a	-6	2 50p	226	●11.35p–
19*	26*	33*	40*	57*	59*	…	…	…	…	…	…	–●–1.45a●4.10a–●25p–●5.13p–●°5.45p–6.25p
0	44	41	29	26	44	39.6	156	6 00a	-41	7 18p	197	●°7.10a–7.20a ⁄ 8.p
6	26	21	29	29	31	31.8	254	6 35a	-103	2 37p	357	⁄ 3.p
0	29	38	50	62	44	28.2	124	6 25a	-59	0 28p	183	–
26	21	50	52	36	12	37.3	112	6 37a	-28	10 00a	140	—
50	62	74	63	86	65	49.0	90	6 37a	9	10 10a	81	●° 4.08p–6.30p ⌈8.15p—8.20p●°9.50p–
11*	3*	0*	0*	–2*	–5*	…	146	7 30a	-47	4 20p	193	●0.40p—●°4.20p– ●°6p—●6.05p—6.25p,
6*	15*	25*	52*	74*	101*	…	104	11 37p	-25	2 50p	129	–●°–3.30a ●°5.30–6.10a.
30	64	86	76	56	65	61.7	168	6 45a	5	3 32p	163	—
32*	37*	26*	26*	22*	15*	…	66	9 00a	-216	8 33a	282	●°3.55a–0.15a
12	19	–9*	26	33	39	18.0	39	M.N	-10	9 00p	49	●°11.50a–
58	59	74	84	82	75	48.0	87	9 43p	12	1 48p	75	–●°0.30a ●°2.30a–3.a.
31	12	9	40	40	36	44.0	118	6 25a	8	8 18p	110	●°5.15p–●7.p–9.50p
45	52	53	47	63	80	25.4	96	11 55p	-100	3 30p	196	●°1.50a–4.20a ●°8.30a–11.50a
41	36	25	31	33	37	79.6	406	6 30a	0	0 12p	406	—
24	45	65	78	65	38	50.9	115	5 55a	12	3 32p	133	—
14	38	29	22	32	22	37.3	198	5 55a	-162	0 24a	360	●°0.30a–8.50a ●°5.50p–
16	21	22	22	52	36	39.9	121	6 20a	0	1 42p	121	–●°–2.a
19	23	18	42			23.7	47	6 30a	-165	10 39p	212	●°9.40a–10.30a●°9.50p–●11.10p–
27*	25*	31*	32*	33*	41*	…	55	7 24p	-295	5 52a	350	–●°0.35a–●2.20a–●25.10a–●6a–●°7.30a-9.10a
29	42	58	41	44	53	44.5	136	6 46a	-14	5 35p	150	—
14	20	22	21	36	73	36.6	219	6 36a	-120	2 27p	339	—
27.9	39.5	46.7	49.5	52.8	53.6	45.1						

明治三十年五月

4°W ……+

日 Day.	午前 A. M. 1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	正午 Noon.	午後 1p	2p	3p	4p	5p	6p
1	29′3	29′2	29′0	29′5	28′9	28′2	27′9	27′4	27′7	30′6	32′4	32′8	32′2	31′5	30′9	30′8	30′8	30′6
2	29.1	29.0	29.0	28.5	28.1	27.5	27.4	26.7	27.8	30.0	31.6	31.9	31.5	31.0	30.9	30.3	29.6	30,5
3	28.2	28.8	28.5	28.6	28.6	27.2	27.3	27.8	30.1	32.7	33.0	32.7	32.6	32.0	31.3	30.8	30.3	29,7
4	29.5	29.2	29.1	28.5	28.5	27.8	27.0	26.3	27.5	29.5	31.9	33.2	32.9	32.6	31.3	30.4	30.0	29,4
5	29.8	29.5	29.3	29.3	28.6	28.0	27.4	28.2	27.7	28.6	31.2	…	…	33.3	31.2	29.7	29.0	29,4
6	29.4	28.7	29.4	29.0	28.2	26.8	25.9	25.3	26.6	30.3	32.8	33.3	34.0	32.7	31.5	30.5	28.5	29,4
7	28.7	29.0	29.4	29.1	29.1	27.7	26.8	27.1	28.4	31.2	33.1	32.8	32.7	32.4	31.2	30.6	29.9	29,1
8	29.6	29.6	29.6	29.6	29.5	28.0	27.3	27.3	28.4	31.3	31.8	33.2	33.2	31.8	30.5	29.8	29.5	29,6
9	29.8	29.8	29.4	29.4	29.2	28.2	27.6	26.7	27.3	29.1	30.4	32.6	33.5	33.7	32.0	…	…	…
10	…	…	…	…	…	…	…	…	…	…	30.3	32.9	32.8	32.5	31.5	30.3	29.3	29,1
11	29.4	29.0	28.5	28.1	27.9	27.9	27.1	26.5	26.3	27.7	29.4	31.9	32.8	32.7	32.1	31.5	30.0	29,4
12	29.6	29.5	29.2	29.2	28.1	27.4	27.1	27.7	29.2	31.3	31.4	32.3	32.7	32.1	31.3	30.5	29.9	29,8
13	28.9	28.9	28.5	28.2	27.7	26.7	26.1	26.9	28.6	30.6	31.3	31.9	31.9	31.3	29.7	…	…	…
14	…	…	…	…	…	…	…	…	…	30.6	31.3	31.4	32.3	31.0	31.0	…	…	…
15	29.0	29.3	29.1	29.0	28.1	26.6	26.8	27.6	28.5	31.2	32.2	32.7	32.8	32.5	31.2	30.2	29.7	29,4
16	29.0	28.9	28.9	28.9	28.3	27.3	26.1	26.1	26.7	28.3	30.2	31.1	31.8	31.7	30.5	29.8	29.2	29.0
17	29.1	28.9	28.9	29.1	28.6	27.3	26.4	26.3	27.3	30.7	32.5	33.5	33.8	33.1	32.5	32.0	31.0	30.7
18	27.9	28.2	26.4	27.3	26.9	27.9	26.6	27.3	29.5	31.0	31.3	32.0	32.0	31.1	30.0	29.4	29.2	29.1
19	29.0	28.5	28.2	28.5	27.9	27.2	26.3	25.9	26.5	…	…	…	…	…	…	…	30.5	29 4
20	29.0	28.3	27.8	27.2	25.8	27,2	26.5	28.6	30.1	30.8	30.9	33.0	33.5	32.6	32.1	30.8	30.1	29.3
21	29.2	28.2	28.3	27.9	27.7	27.7	26.6	27.7	29.1	31.7	33.4	32.3	33.1	34.0	33.2	34.4	32.9	27.0
22	2.91	28.6	28.8	28 6	27.7	26.7	27.0	28.0	28.6	30.6	30.8	32.5	35.6	33.5	32.6	32.6	30.7	30.4
23	2.96	29.1	29.6	28.4	29.0	28.2	28.2	28.4	29.4	31.2	32.7	32.5	33.0	32.8	31.8	31.0	29.6	27.8
24	2.86	28.7	28.3	28.4	28.0	27.2	26.2	25.8	26.9	27.8	30.5	31.2	31.7	32.3	31.8	30.8	30.2	29.2
25	2.83	28.1	28.1	28.3	27.7	27.1	26.5	26.9	28 9	29.2	30.5	31.2	31.7	30.5	30.2	29.9	29.8	29.5
26	28.2	28.0	27.6	27.0	26.6	25.8	26.1	26.8	28.3	..	31.1	31.9	31.7	31.6	30.4	29.5	28.9	28.6
27	28.2	28.2	28.1	26.2	26.9	26.6	25.9	25.7	27.6	30.2	31.0	32.4	32.1	31.5	30.6	29.1	28.1	27.8
28	27.4	27.5	27.7	26.9	26.5	26.1	25.0	25.8	28.0	32.1	33.9	33.9	33.9	33.2	31.8	30.2	29.5	29.2
29	28.9	28.6	28.0	27.8	26.9	25.8	24.9	25.2	26.6	28.6	30.3	31.5	31.8	31.7	30.5	30.1	29.0	28.4
30	28.0	27.8	27.8	28.0	27.7	26.8	26.4	27.1	28.0	29.9	30.9	32.9	34.0	34.5	34.5	33.8	31.7	30.2
31	29.3	28.7	28.7	28.7	28.2	27.5	27.2	26.9	27.5	29.4	28.4	39·3	29.6	39.4	26.7	27.0	26.7	26.6
平均 Mean	28.93	28.75	28.59	28.39	27.96	27.26	26.68	26.90	28.04	30·22	31.42	32.30	32.66	32.22	31.23	30 59	29.77	29.21

水平磁力 0.29……+

1	804	802	803	806	805	804	802	799	799	799	812	819	824	827	821	811	805	802
2	808	808	810	814	814	817	818	814	814	817	825	838	849	853	847	838	829	797
3	804	812	815	819	818	818	809	804	792	795	811	833	837	828	826	826	816	816
4	820	820	819	818	818	817	813	801	798	799	798	804	816	822	821	812	805	803
5	815	813	814	818	822	821	810	788	782	787	794	805	817	816	820	821	810	806
6	824	827	823	823	823	824	817	810	802	804	810	817	813	813	805	806	807	812
7	807	810	812	802	803	804	800	792	782	782	784	790	796	792	802	797	791	789
8	799	799	799	801	802	801	793	787	787	792	799	806	816	822	822	818	810	805
9	809	810	813	814	812	812	804	793	781	778	778	787	810	812	817	…	…	…
10	…	…	…	…	…	…	…	…	…	…	808	820	831	839	835	833	831	820
11	824	830	835	836	831	831	822	811	805	814	820	828	829	828	824	821	825	825
12	814	816	814	816	818	813	805	806	809	814	821	830	837	839	838	832	827	826
13	826	825	828	830	829	828	819	814	819	829	835	840	847	839	837	…	…	…
14	…	…	…	…	…	…	…	…	…	823	830	835	834	836	845	…	…	…
15	797	800	808	814	813	809	805	797	802	786	804	808	812	813	809	805	803	799
16	811	811	811	811	811	805	804	794	797	797	805	812	818	817	818	817	813	811
17	819	819	818	817	819	820	814	809	806	798	806	811	819	819	817	810	805	806
18	800	790	816	804	809	787	786	785	785	786	805	816	816	816	818	814	810	802
19	818	818	825	823	823	817	811	804	797	…	…	…	…	…	…	…	794	799
20	826	832	832	842	838	820	802	781	771	781	794	796	796	802	796	800	802	802
21	821	821	823	819	819	816	810	809	816	792	806	830	842	823	809	769	761	803
22	785	794	803	803	805	796	784	777	774	753	776	790	757	771	791	790	792	788
23	821	821	828	839	813	814	810	800	793	788	794	812	814	815	817	821	817	820
24	…	…	…	813	813	806	802	796	784	…	…	…	…	…	…	…	…	…
25	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
26	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
27	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
28	…	…	…	…	…	…	…	…	…	808	815	821	827	833	833	829	827	827
29	832	834	833	835	840	835	825	821	817	818	823	835	835	831	833	833	829	823
30	828	828	833	833	834	825	818	825	845	862	879	871	854	830	797	792	793	813
31	801	809	804	806	804	803	800	800	804	812	820	831	828	824	824	817	816	814
平均 Mean	8136	8145	8175	8182	8174	8137	8073	8007	7984	8006	8097	8187	8221	8215	8201	8136	8091	8087

MAY 1897.

MAGNETIC DECLINATION

P. M. 7p	P. M. 8p	P. M. 9p	P. M. 10p	P. M. 11p	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
							′	h m	′	h m	′	
30.5	30.2	30.2	29.9	29.8	29.5	30,00	33.0	11 50a	27.4	8 00a	5.6	C
31.9	31.5	30.7	29.3	28.4	28.3	29.61	32.2	11 50a	26.7	8 00a	5.5	C morning, A afternoon
29.7	29.7	29.7	29.7	30.0	29.1	29.92	33.6	10 20a	27.0	5 55a	6.6	A morning, C afternoon
29.2	29.4	29.5	30.0	30.1	29.5	29.68	33.5	0 18p	26.3	8 00a	7.2	A
29.9	30.0	30.2	29.9	30.2	30.0	29,56	...	... ...	...	... ...	...	C
30.3	29.6	30.8	29.7	30.0	29.9	29.69	34.0	1 00p	24.4	8 18a	9.6	A
29.7	29.7	29.4	29.6	30.0	29.9	29.86	33.1	11 00a	26.6	7 40a	6.5	C
29.6	30.1	29.9	30.1	30.1	29.9	29.97	33.3	0 28p	27.0	7 20a	6.3	C
...	...	...	...	...	...	29.91	...	... ...	...	... ...	...	C
30.5	30.5	30.2	29.9	29.6	29.3	30.62	...	... ...	...	... ...	...	C
29.6	29.9	29.7	29.6	29.4	29.9	29.43	32.8	1 00p	25.7	8 15a	7.1	C
30.2	30.1	29.6	29.8	29.6	29.3	29.87	32.7	1 00p	27.0	6 20a	5.7	C
...	...	...	...	...	...	29.15	...	... ...	...	... ...	...	C
30.4	30.6	30.6	30.0	29.5	27.7	30.53	...	... ...	...	... ...	...	A
29.4	29.4	29.4	29.6	29.4	29.3	29.68	32.8	1 00p	25.7	6 43a	7.1	A
29.5	29.5	29.5	29.8	29.5	29.0	29.11	32.0	1 28p	25.9	7 25a	6.1	C
30.0	30.0	29.7	27.4	29.4	27.3	29.81	33.8	1 00p	24.9	8 08a	8.9	C
29.1	29.2	29.4	29.2	29.2	28.9	29.09	32.3	0 26p	26.4	7 05a	5.9	S
29.4	29.3	29.4	29.4	29.6	29.1	28.48	...	... ...	...	... ...	...	A
28.1	29.5	29.9	29.3	29.5	29.3	29.55	33.5	0 20p	25.3	6 14a	8.2	A
29.5	28.2	29.2	28.5	29.5	29.2	29.94	35.4	3 46p	24.9	5 49p	10.5	S[1]
30.7	30.4	30.0	30.4	30.3	30.0	30.17	35.7	0 46p	25.5	6 21a	10.2	S°
29.0	29.6	29.0	29.6	29.7	29.4	29.94	33.4	1 24p	27.0	6 34a	6.4	A
29.0	30.2	29.9	29.3	29.2	29.0	29.17	32.4	2 12p	25.6	7 42a	6.8	C
29.6	29.6	29.6	29.3	29.0	28.7	29.09	31.7	1 00p	26.5	7 00a	5.2	C
28.9	29.2	29.4	29.4	29.1	28.3	28.80	31.9	Noon	25.4	6 18a	6.5	C
28.7	29.0	28.7	29.0	29.1	28.8	28.73	32.5	0 22p	25.4	7 49a	7.1	A
29.5	29.5	28.6	28.4	29.2	29.2	29.29	34.0	11 34a	25.0	7 00a	9.0	C
28.7	28.9	29.0	29.3	29.2	29.0	28.70	32.0	0 32a	24.9	7 00a	7.1	A
30.1	30.2	29.8	30.2	29.9	30.2	30.02	34.9	2 28p	25.8	7 22a	9.1	A morning, S° afternoon
26.7	26.7	26.7	26.7	26.2	26.2	27.71	29.6	1 00p	26.0	11 38p	3.6	A
29.57	29.64	29.58	29.39	29.44	29.08	29.50	33.04		25.93		7.11	

HORIZONTAL MAGNETIC INTENSITY

								h m		h m		
805	806	807	806	805	805	8074	827	2 05p	799	10 00a	.03 28	C
788	795	808	804	797	804	8169	853	1 32p	783	7 22p	70	C morning, A afternoon
816	821	825	817	816	825	8166	837	1 00p	790	9 32a	47	A
808	808	809	809	807	815	8108	827	0 20a	794	10 38a	33	A
804	804	809	816	814	818	8093	824	5 12a	781	8 23a	43	A
805	816	802	818	823	807	8138	828	2 18a	798	8 50p	30	S°
791	791	790	790	789	795	7950	812	8 00a	777	10 12a	35	A
807	805	804	803	803	805	8035	822	3 00p	785	8 46a	37	A
...	...	...	...	...	...	8020	...	.....	...	.....	.....	C
801	797	805	812	816	826	8196	...	.....	...	.....	.....	A
820	822	818	809	812	813	8222	837	3 16a	805	8 52a	32	A
823	819	818	818	816	820	8204	841	1 50p	802	7 21a	39	C
...	...	...	...	...	...	8297	...	.....	...	.....	.....	A
...	821	809	793	794	819	8217	...	.....	...	.....	.....	S°
802	805	805	809	806	809	8050	822	0 01a	786	10 00a	36	A
811	811	811	811	812	816	8098	818	4 20p	794	8 05a	24	C
810	817	807	813	794	805	8116	822	5 40a	788	11 05p	34	A
805	810	815	816	816	816	8051	818	3 00p	779	6 40a	39	S morning, A afternoon
804	808	814	816	817	818	8121	...	.....	...	.....	.....	A
801	810	814	816	816	818	8078	847	3 50a	768	8 56a	79	S°
796	796	790	788	786	784	8054	843	1 11p	743	5 32p	95	A morning, S afternoon
795	812	807	810	813	813	7908	813	M.N.	753	10 00a	60	A morning, S° afternoon
819	816	817	820	...	...	8140	840	3 57a	786	10 20a	54	A
...	...	...	...	...	...	8023	...	.....	...	.....	.....	—
...	...	...	...	...	...	...	...	.....	...	.....	.....	—
...	...	...	...	...	...	...	...	.....	...	.....	.....	—
...	...	...	...	...	...	...	...	.....	...	.....	.....	—
827	828	830	831	828	831	8263	...	.....	...	.....	.....	A
825	827	827	829	828	828	8290	840	5 00a	815	9 27a	25	A
833	814	790	783	779	788	8228	832	11 13a	767	9 23p	115	A morning, S afternoon
814	816	818	820	819	821	8135	831	Noon	786	0.01a	45	A
8087	8110	8100	8103	8086	8125	8121	8326		7850		.03 476	

明治三十年五月

鉛直磁力　0.34.....+

日 Day.	午前 A. M. 1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	正午 Noon	午後 1p	2p	3p	4p	5p	6p
1	352	351	354	355	358	356	355	353	347	340	348	359	362	360	357	353	353	355
2	363	363	364	366	368	368	367	364	346	350	359	369	374	370	366	363	364	352
3	376	380	381	381	384	378	371	365	354	356	370	387	392	388	387	387	387	388
4	387	387	388	388	389	388	385	374	365	357	361	369	372	379	379	372	371	371
5	385	385	383	386	387	386	374	366	360	358	362	373	374	375	379	379	373	373
6	386	386	385	386	386	386	378	369	360	349	356	365	368	373	370	371	371	379
7	370	372	373	369	372	372	369	364	358	357	353	358	361	358	362	362	361	362
8	371	369	371	372	372	372	363	359	348	347	350	360	368	373	371	364	363	361
9	370	370	372	372	371	371	363	355	346	347	348	358	363	366	367	...	...	...
10	...	...	...	...	...	...	...	...	...	...	353	359	362	359	359	361	363	359
11	371	371	373	371	371	370	363	358	351	351	351	355	357	358	358	358	362	362
12	370	371	371	371	371	370	359	359	359	343	346	346	350	349	346	347	346	346
13	354	353	356	352	356	352	344	334	333	333	338	344	349	346	345	...	...	...
14	...	...	...	...	...	...	...	...	...	330	330	334	336	334	344	...	...	...
15	331	336	343	344	343	337	331	325	322	313	317	322	329	335	331	329	331	329
16	332	333	336	336	339	332	331	327	325	321	324	335	335	335	333	333	333	333
17	333	333	333	337	337	335	332	326	320	316	324	329	336	335	336	336	336	336
18	336	332	343	336	336	330	323	323	320	321	328	349	346	346	349	346	346	342
19	342	342	345	342	345	344	338	333	327	...	...	...	...	...	...	...	337	350
20	364	366	364	367	364	356	345	344	340	347	354	352	352	358	350	355	359	359
21	366	366	366	363	368	366	359	356	355	335	345	360	362	352	351	348	352	381
22	378	380	378	381	384	380	377	370	367	359	352	359	336	351	367	373	375	374
23	377	377	378	378	367	372	369	363	359	347	341	355	362	366	374	370	369	373
24	374	363	370	367	372	370	365	359	352	336	338	342	359	362	369	370	370	370
25	375	372	369	372	372	373	360	359	357	357	362	365	362	366	369	365	362	360
26	377	373	374	374	375	373	370	370	370	...	365	371	375	378	381	378	375	370
27	377	380	380	383	384	380	373	368	365	365	368	370	370	373	374	368	370	370
28	372	372	375	378	380	380	378	369	366	360	369	368	366	372	372	371	371	371
29	376	378	375	378	383	381	375	370	369	360	360	361	363	366	367	366	366	364
30	374	375	377	378	378	364	361	354	355	354	355	349	340	341	334	349	352	360
31	381	382	379	379	379	376	371	365	357	351	345	356	360	362	362	360	362	362
平均 Mean	3662	3661	3674	3677	3687	3661	3603	3552	3501	3450	3491	3560	3580	3595	3603	3605	3600	3611

空中電氣

1	83	52	44	39	55	60	37	29	12	12	4	-6	-37	-53	-47	-27	12	-14
2	21	23	27	27	32	36	36	17	-2	-6	- 8	4	4	- 1	- 8	15	21	23
3	±	±	+	+	+	−	−	±	+	+	+	+	±	±	±	±	±	±
4	−	5	11	9	43	70	64	29	13	7	21	13	11	9	14	21	42	13
5	4	17	30	31	42	67	72	61	73	13	18	18	11	4	7	7	19	11
6	33	40	32	36	52	86	56	43	16	11	19	27	9	5	6	9	15	16
7	28	30	31	26	28	28	35	15	31	23	3	- 5	- 5	-18	- 6	-18	-13	-28
8	4	4	4	13	7	14	23	15	9	12	12	12	18	15	14	9	- 5	-16
9	-9	4	6	2	13	26	19	17	14	21	23	13	-28	-20	-18	4	- 5	-10
10	-31	-16	-10	-10	5	24	13	2	- 1	7	10	9	1	1	- 3	0	0	-9
11	7	15	24	14	27	42	63	31	20	13	9	5	22	22	- 2	-24	−	±
12	-31	6	14	-10	5	23	25	14	14	15	14	11	21	20	20	21	22	20
13	4	3	3	8	20	41	39	27	20	13	10	0	5	8	14	18	15	16
14	67	64	43	49	67	67	52	26	13	9	21	7	27	10	-25	- 4	-30	0
15	42	41	47	56	136	131	121	-52	-33	-63	-93	-68	-90	-21	-14	-19	-27	0
16	±	+	+	±	−	−	+	+	+	5*	- 1*	- 7*	9*	- 6*	18*	11*	30*	24*
17	74	36	68	45	90	109	94	70	65	54	52	25	12	10	12	12	12	15
18	39	46	65	66	66	99	127	68	39	30	14	12	20	15	24	33	18	23
19	40	34	43	47	68	104	61	34	19	15	9	16	13	17	19	17	18	27
20	23	19	21	20	63	84	56	40	23	15	11	19	19	19	19	6	4	9
21	27	26	38	27	35	58	33	22	16	11	12	17	28	17	10	11	11	12
22	-16*	−	−	−	−	−	−	−	−	−	−	−	-52*	-31*	-19*	-10*	- 2*	9*
23	48	64	118	76	118	217	229	107	74	48	43	34	27	5	8	-2	8	5
24	44	31	28	45	75	28	40	57	57	37	25	18	14	11	29	43	44	35
25	42	46	18	43	43	101	64	50	42	25	20	26	30	24	35	54	+	±
26	59	66	55	75	107	129	126	59	38	29	25	24	21	16	25	13	±	13
27	50	57	38	46	87	96	62	35	19	16	24	19	11	21	22	5	6	11
28	35	31	39	41	73	100	129	63	9	-50	-107	- 3	7	-49	-94	-49	-13	9
29	20	23	27	35	54	118	112	41	27	16	-13	-38	- 51	-20	6	31	17	35
30	0	15	9	2	31	65	38	44	40	27	23	24	23	36	30	30	21	29
31	34	29	49	37	68	30	135	63	39	26	27	20	15	9	16	13	14	23
平均 Mean	27.7	29.0	32.9	32.0	53.9	73.3	70.0	36.7	25.2	13.8	8.5	9.0	5.3	4.0	4.0	7.1	8.1	10.3

MAY 1897.

P. M.					夜半	平均	最大		最小		較差	記事
7	8	9	10	11	M.N.	Mean	Maximum		Minimum		Range	Remarks.

VERTICAL MAGNETIC INTENSITY.

								h m		h m		
357	360	361	360	360	360	3552	363	1 24 p	340	10 00 a	0.3 23	C
359	366	376	373	370	374	3647	374	1 15 p	346	9 00 a	28	C morning, A afternoon
385	389	389	387	391	393	3811	384	5 00 a	354	9 20 a	30	A
374	374	375	376	378	384	3768	389	5 00 a	356	10 44 a	33	C
371	377	379	385	383	385	3766	387	5 00 a	358	10 00 a	31	C
371	373	369	373	378	373	3734	386	5 00 a	349	10 00 a	37	A
361	361	361	360	361	369	3636	374	3 38 a	351	10 24 a	23	C
361	361	360	361	361	368	3636	373	2 00 p	347	9 18 a	26	A
...	...	...	...	...	...	3626	...	...	...	...	...	C
350	354	361	366	367	374	3605	...	...	...	...	...	C
358	361	362	358	362	370	3617	374	0 00 a	351	10 00 a	23	C
343	343	343	3 3	345	354	3538	371	4 00 a	343	10 00 a	28	C
...	...	...	...	...	...	3459	...	...	...	...	...	C
330	334	332	329	330	344	3339	...	...	...	...	...	A
328	329	329	329	329	335	3303	344	4 00 a	309	10 18 a	35	A
331	329	329	329	329	333	3314	339	5 00 a	317	10 18 a	22	C
331	335	331	331	328	335	3317	337	7 00 a	316	10 00 a	21	A
339	343	343	343	342	345	3378	349	3 00 p	303	9 31 a	41	A
350	356	358	357	358	367	3465	...	...	...	...	...	A
359	360	360	360	360	366	3567	372	3 53 a	340	9 00 a	32	A
374	367	367	362	360	374	3606	381	6 00 p	332	10 18 a	49	A morning, S afternoon
371	380	371	369	369	375	3698	388	1 40 a	336	1 00 p	52	A morning, S° afternoon
365	363	369	369	367	370	3667	383	3 21 a	338	10 27 a	45	A
363	363	365	366	366	370	3625	374	1 00 a	336	10 00 a	38	C
360	363	366	369	366	375	3657	375	1 00 a	356	9 20 a	19	C
367	367	368	367	367	373	3721	383	2 45 p	365	11 00 a	18	C
370	368	368	367	368	376	3723	384	5 00 a	364	10 28 a	20	C
366	366	365	368	366	372	3705	381	5 13 a	360	10 05 a	21	A
363	366	364	364	364	369	3687	383	5 00 a	358	11 18 a	25	A
375	366	361	363	360	375	3604	378	5 00 a	334	3 00 p	44	A morning, S afternoon
362	360	365	364	362	366	3653	382	2 00 a	340	10 26 a	42	A
3584	3598	3602	3603	3602	3663	3598	3734		3425		0.3 310	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
0	8	12	13	16	17	12.4	101	0 26 a	−79	2 00 p	180	−
13	21	21	21	−36*	16	15.3	51	7 18 a	−72	1 12 p	123	●° 11p.−
−	+	±	±	±	−	...	>456	1 45 p	−417	10 25 p	>873	−●°−●7a−●°7.30p−●°11.25p− ⸝11p−M.N.
45	41	46	+	+	±	26.3	158	10 43 p	−383	0 38 p	546	−●°−●°0.35a−2.55a..●11p− ⸝2p ◁ at z 10.14p
20	22	25	40	47	29	28.7	221	0 25 a	−58	0 43 p	279	−●°1.05a
14	19	20	35	29	27	27.3	90	6 13 a	2	2 08 p	88	−
−30	±	±	−9	−12	−13	5.5	111	7 09 p	−350	8 40 p	461	●°3.50p−●6p−●°9.10p−
−21	−18	−16	−23	−19	−3	2.1	25	6 36 a	−30	9 42 p	55	−●°−0.30a ●°7p−10.25p
−5	−20	−28	96	−26	−25	−5.3	29	10 45 a	−117	10 00 p	146	●° 0.45p−
−14	−12	12	−5	−14	−10	−3.1	32	6 10 a	−68	0 35 a	100	−●°1.40a
−13	1	−9	−24	−42	0	9.1	116	6 10 p	−283	5 17 p	399	●°3.05p−
5	3	1	14	4	0	10.5	33	5 20 a	−48	0 48 a	81	−●°−2.40a ●°8.50a−9.10 a
9	9	−8	43	45	51	17.2	56	M.N.	−24	8 43 p	80	●°6.30p−8.20 p
0	33	36	41	39	38	27.1	83	5 55 a	−55	3 27 p	148	−
16	15	19	19	17	2	6.3	178	5 25 a	−175	11 21 a	353	●°4.05p−7.15p ●°11.40p−
31*	34*	34*	47*	55*	82*	...	>245	3 35 a	<−179	3 56 a	>415	●°−●3.05a−●°5.50a−3.20p
22	30	31	36	38	38	43.7	148	5 32 a	4	1 21 p	144	−
14	23	24	30	38	38	40.5	140	7 17 a	4	11 42 a	136	−
29	26	23	25	26	28	31.6	112	5 50 a	3	0 18 p	109	−
19	25	25	20	21	24	25.1	96	5 36 a	−4	4 40 p	100	−
15	15	4	10	14	5	19.7	67	5 48 a	−12	9 14 p	79	−
10*	20*	29*	48*	63*	48*	...	70	10 53 p	<−179	2 00 a	>249	⸝ 2a−noon
23	31	32	32	38	32	59.0	>229	6 40 a	−16	3 30 p	>245	−
24	15	24	43	40	63	36.2	81	5 19 a	−95	1 13 p	176	●° 3.50a−3.25a ●° noon −1.15p ●°4.50p−8.20p
±	−	24	39	47	52	41.7	...	...	...	...	...	●°0.30a−355a.,10.05a−11.15a.●°5.50p.−●6.10p.−7.35p TN4.35p−[ζN5.07p,−[ζ²NW5.55p−W.6.00p
39	116	79	46	38	68	55.0	166	8 04 p	−103	5 32 p	269	◁S 8.30p−9p [[ζ²S6.10p.−[ζSE7.10p.−
19	23	28	30	32	34	33.0	109	6 26 a	−7	4 24 p	116	− [◁SE7.40p−9.00p
17	20	17	17	17	19	11.6	150	6 50 a	<−156	11 00 a	>306	⸝noon −5p
12	17	8	14	16	17	21.4	159	6 42 a	<−162	0 48 p	>321	●°3.30p
18	20	28	28	31	33	27.2	72	5 51 a	−3	3 52 a	75	−●°−8a
25	20	29	24	29	22	32.8	>172	6 18 a	8	1 48 p	164	●°2.10p−2.20p
11.7	19.3	17.9	17.1	19.6	22.1	23.4						

明治三十年六月

偏角 4°W+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	26′0	26′1	25′6	25′3	24′2	22′6	22′2	22′9	23′8	25′9	28′8	29′0	28′4	28′1	27′3	26′6	25′9	25′9
2	26.0	26.1	25.4	25.3	24.8	22.9	22.5	22.6	23.6	25.3	26.0	27.9	28.8	28.8	27.9	27.6	27.3	26.6
3	25.6	25.4	25.7	25.6	24.5	22.9	22.3	23.0	24.7	27.2	28.7	29.6	29.3	29.0	29.0	28.5	27.6	26.2
4	25.1	24.6	24.3	24.9	25.2	24.5	23.3	24.9	26.3	27.4	28.8	29.7	30.7	30.7	30.4	27.3	26.1	25.7
5	25.7	25.5	25.5	24.9	24.8	23.3	23.1	23.4	24.9	26.3	27.7	28.3	29.2	29.2	28.5	28.0	27.3	26.8
6	24.9	24.9	24.8	25.1	24.8	24.5	23.7	23.4	24.0	25.1	26.8	28.2	29.7	29.4	28.6	27.4	26.4	26.3
7	26.3	26.3	25.8	25.7	25.1	24.3	23.7	23.7	24.5	...	27.3	28.6	30.1	30.1	29.5	27.9	26.6	25.8
8	26.4	26.2	26.2	26.1	25.2	25.0	24.9	24.6	24.7	25.6	26.5	27.5	29.0	29.0	28.0	27.8	27.2	26.2
9	26.4	26.2	26.1	25.6	25.3	24.6	24.3	24.9	24.9	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	28.3	29.8	30.5	30.5	29.6	28.3	27.8	26.7	26.5
11	25.9	25.3	25.4	25.1	25.3	24.2	22.8	23.3	25.4	26.5	27.6	28.5	28.7	28.8	28.4	27.9	27.6	27.6
12	26.5	26.2	25.9	25.7	25.0	24.7	24.7	24.8	26.2	28.2	29.4	30.2	29.7	29.1	28.4	27.6	27.3	26.6
13	26.5	26.4	26.4	26.2	25.1	23.3	23.6	24.5	26.5	28.1	29.7	30.0	29.6	28.7	28.4	27.6	27.3	26.9
14	26.5	26.0	26.2	26.0	24.8	22.9	22.8	24.1	25.9	28.8	30.3	30.6	30.5	30.3	28.8	27.2	26.6	26.5
15	26.9	26.6	26.7	26.3	26.1	24.5	23.9	24.3	24.9	26.3	27.9	28.5	29.8	30.4	29.2	28.0	27.3	27.0
16	27.0	26.4	26.6	27.1	24.9	23.3	22.6	24.5	26.4	27.3	27.9	30.7	30.7	28.9	27.7	28.6	28.9	28.5
17	25.2	25.7	25.1	24.3	22.9	25.2	24.9	25.4	28.0	31.4	33.3	31.7	32.5	34.5	32.5	32.9	30.7	28.2
18	27.9	27.6	27.3	26.6	26.4	24.9	24.2	24.0	24.8	26.6	28.0	30.7	30.7	29.5	30.7	29.8	28.8	27.9
19	27.4	27.1	27.0	27.0	26.5	25.0	25.2	24.7	26.1	28.6	30.8	30.9	32.6	32.7	30 8	30.5	28.3	28.4
20	27.5	27.2	26.5	26.5	26.2	25.5	24.6	24.1	25.0	26.5	...	...	...	...	...	...	...	...
21	27.1	27.1	26.8	26.7	26.5	25.3	24.4	23.5	24.3	26.4	28.3	29.9	30.8	30.8	30.8	30.8	29.9	28.1
22	27.4	26.8	26.4	26.7	26.4	25.0	24.0	24.9	24.9	27.5	30.1	32.7	32.9	33.5	33.6	30.1	29.0	28.6
23	27.2	27.1	27.8	27.7	27.0	26.4	25.3	25.3	25.6	27.5	28.6	29.3	30.9	31.6	30.9	30.9	29.1	28.5
24	27.7	27.6	26.8	26.8	26.6	26.3	26.2	25.3	25.1	27.6	29.1	29.7	30.3	30.0	29.4	28.5	28.4	28.5
25	27.9	27.6	27.6	27.6	27.3	25.3	25.1	25.6	26.8	28.4	29.6	29.9	29.9	30.2	30.0	29.4	28.4	27.6
26	28.0	27.6	27.3	27.2	25.7	25.4	24.6	23.9	26.1	28.0	30.1	31.0	32.3	32.3	31.3	30.1	28.8	28.5
27	27.9	27.7	27.4	27.4	26.6	25.1	23.9	24.0	25.4	28.0	30.0	31.0	31.0	30.9	29.4	28.8	28.5	28.3
28	27.6	26.9	26.1	26.0	35.1	24.6	25.2	25.1	26.6	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	2.66	29.1	32.2	32.3	31.3	29.2	29.2	29.1	28.3
30	28.1	28.1	28.1	28.0	27.5	26.5	25.6	25.5	25.9	27.1	29 0	...	...	...	...	...	...	...
平均 Mean	26.74	26.51	26.34	26.19	25.56	24.57	24.06	24.29	25.40	27.28	28.86	29.88	30.42	30.28	29.50	28.72	27.89	27.31

水平磁力 0.29.....+

1	821	822	820	822	824	824	814	805	804	801	805	826	828	826	832	823	824	828
2	827	827	829	828	832	835	826	815	810	808	835	844	846	843	844	841	836	839
3	837	828	825	819	820	834	826	812	805	809	816	828	826	828	821	820	801	807
4	804	819	821	822	819	813	799	792	797	800	802	810	812	805	805	814	817	813
5	816	813	817	822	824	828	822	811	810	813	822	828	835	843	845	842	828	815
6	822	823	827	832	831	827	820	816	818	817	821	829	832	837	837	832	822	816
7	828	830	830	833	835	837	827	819	814	...	810	814	817	826	835	838	830	828
8	831	830	827	829	835	841	836	827	822	815	827	833	833	836	833	828	827	828
9	832	833	830	835	836	834	831	828	830	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	843	847	854	856	852	850	848	841	837
11	851	850	851	849	847	843	845	852	858	856	862	858	854	842	836	838	840	838
12	838	832	836	838	842	835	827	825	825	830	841	849	852	845	841	838	833	838
13	843	843	842	845	846	844	836	831	832	840	848	857	859	854	853	850	845	845
14	849	854	847	845	847	862	859	852	838	835	845	848	846	839	838	839	837	832
15	837	836	838	838	845	845	845	841	839	831	831	833	836	844	844	839	833	835
16	836	835	838	841	845	847	845	836	834	849	878	854	833	840	853	841	842	840
17	824	825	820	824	842	822	819	808	810	791	781	817	825	804	891	785	741	795
18	805	804	801	799	799	797	794	794	792	...	785	785	805	804	806	805	808	811
19	814	814	812	813	811	806	799	804	792	782	795	813	814	806	817	806	806	810
20	816	819	825	817	820	813	806	800	805	805	806	807	806	806	813	821	817	819
21	819	820	819	821	822	817	812	806	798	786	792	793	811	814	806	806	795	806
22	818	819	819	825	826	827	820	809	800	832	799	802	801	800	815	814	813	806
23	817	807	814	816	815	819	817	817	807	795	807	813	814	807	807	815	818	818
24	824	823	826	825	827	835	836	834	829	820	818	822	829	831	834	834	834	834
25	831	832	829	829	830	835	830	824	821	821	828	838	845	837	837	840	836	836
26	832	835	833	828	828	830	833	831	829	822	823	832	839	841	845	849	850	847
27	838	837	838	839	839	835	827	816	811	808	820	830	839	842	844	835	832	835
28	836	835	838	828	822	822	823	821	819	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	827	825	819	826	833	830	829	825	822
30	831	829	829	831	831	829	823	818	822	82 4	833	...	...	...	....	...	...	...
平均 Mean	8277	8276	8279	8283	8300	8299	8249	8194	8168	8177	8215	8273	8303	8291	8304	8281	8234	8251

JUNE 1897.

MAGNETIC DECLINATION.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
26.5	26.0	26.2	26.5	26.7	26.0	25.94	29.1	1130a	22.2	640a	6.9	C
26.6	27.3	26.6	26.2	26.3	26.2	26.02	29.1	145p	22.5	700a	6.6	A at night
26.6	27.2	27.0	26.6	26.6	25.4	26.42	29.6	Noon	22.3	700a	7.3	A afternoon
26.6	26.4	26.1	26.0	26.1	26.0	26.57	31.3	125p	23.3	700a	8.0	A
26.4	26.6	26.4	26.1	26.0	25.2	26.21	30.0	120p	23.1	700a	6.9	C
26.0	26.1	26.3	26.3	26.4	26.4	26.06	29.7	100p	23.4	800a	6.3	C
26.6	26.4	26.4	26.7	26.8	26.1	26.53	30.4	030p	23.0	650a	7.4	C
26.2	26.4	26.1	26.2	26.4	26.2	26.40	29.2	130p	24.6	800a	4.6	C
...	...	...	...	...	...	25.37	...	...	...	...	...	C
26.8	26.7	26.5	26.5	26.5	26.4	27.83	...	...	...	...	...	C
27.6	27.6	27.3	26.9	26.6	26.6	26.54	28.8	200p	23.2	700a	5.6	C
26.6	26.6	27.3	26.9	26.9	26.6	26.96	30.2	Noon	24.4	640a	5.8	C
26.9	26.9	26.8	26.5	26.9	26.5	26.89	30.0	Noon	22.9	620a	7.1	C
26.9	26.9	27.2	27.2	27.3	27.0	26.97	30.6	Noon	22.0	635a	8.6	C
27.3	27.3	27.1	27.3	27.7	27.4	27.03	30.6	130p	23.9	700a	6.7	C
28.9	25.5	26.6	28.0	26.9	26.9	27.12	31.9	017p	22.6	700a	9.3	S° afternoon
28.5	26.7	28.9	28.2	27.9	27.9	28.44	35.4	440p	22.9	500a	12.5	S
27.9	27.9	27.4	27.6	27.3	27.3	27.57	31.9	200p	23.9	748a	8.0	C
28.1	28.1	28.3	28.9	28.0	27.5	28.23	32.6	200p	24.9	617a	7.7	C
...	27.4	28.0	27.5	27.7	27.4	26.51	...	...	...	...	...	C
28.0	26.7	26.5	27.8	27.8	27.7	27.58	30.8	230p	23.5	800a	7.3	C
28.1	28.4	28.6	27.8	28.1	28.1	28.32	33.5	200p	24.0	700a	9.5	C
28.2	28.1	28.1	28.1	28.4	27.8	28.14	31.6	200p	25.3	730a	6.3	C
28.4	28.5	28.7	28.7	28.4	28.1	27.95	30.8	110p	25.1	900a	5.7	C
28.5	28.4	28.7	28.7	28.7	28.2	28.14	30.5	130p	25.1	700a	5.4	C
29.1	29.2	29.2	29.1	28.0	27.7	28.35	32.5	130p	23.6	745a	8.9	C
28.8	29.2	28.9	28.2	28.3	28.8	28.06	31.1	030p	23.9	700a	7.2	C
...	...	...	...	...	...	25.91	...	...	...	...	...	C
28.9	28.6	28.8	28.6	28.5	28.5	29.28	...	...	...	...	...	C
...	...	...	...	...	...	27.22	...	...	...	...	...	C
27.50	27.30	27.41	27.34	27.36	27.03	27.20	31.09		23.67		7.32	

HORIZONTAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
825	827	828	826	827	831	8214	834	243p	800	1025a	.0834	C
826	825	833	838	834	832	8314	851	220p	805	1000a	46	A at night
811	801	801	801	793	801	8154	851	025a	792	1150p	59	S°
803	815	802	809	813	817	8093	824	800p	792	800a	32	A
813	817	823	826	828	827	8237	851	232p	808	825a	43	C
816	822	827	823	826	827	8250	837	200p	813	630p	24	C
822	820	810	814	823	828	8247	838	300p	809	950a	29	C
829	824	828	829	829	833	8296	841	500a	815	1000a	26	C
...	...	...	...	...	...	8321	...	...	...	...	...	C
837	839	839	846	846	850	8457	...	...	...	...	...	C
835	837	845	843	847	837	8464	862	1100a	842	200p	20	C, A late at night
843	845	846	845	843	844	8388	852	047p	823	740a	29	C
845	856	857	861	856	859	8478	859	100p	830	820a	29	C
831	837	834	834	837	838	8426	863	620a	830	545p	33	C
832	833	834	833	833	839	8372	846	780a	829	1020a	17	C
829	819	828	814	827	820	8385	879	1107a	814	1000p	65	S° afternoon
788	803	778	784	802	804	8039	842	500a	732	450p	110	S
805	805	809	811	818	813	8024	813	617p	784	1155a	29	A afternoon
806	806	813	813	812	819	8076	820	025a	782	1000a	38	A
814	821	819	826	806	817	8135	830	220a	800	800a	32	C
806	805	806	812	815	817	8085	823	510a	786	1000a	37	A
806	813	817	817	817	817	8138	827	600a	780	1000a	47	A
816	818	820	821	721	826	8144	827	1155p	795	1000a	32	C
828	831	831	829	829	830	8289	840	417p	815	1018a	25	C
823	831	834	835	831	834	8320	842	100p	821	900a	21	C
833	838	835	838	838	838	8353	853	520p	821	1040a	32	C, A afternoon
824	827	830	828	828	834	8307	844	300p	808	9050a	36	C
...	...	...	...	...	...	8271	...	...	...	...	...	C
821	826	823	827	828	830	8261	...	...	...	...	...	C
...	...	...	...	...	...	8273	...	...	...	...	...	C
8210	8237	8241	8253	8062	8282	8258	8420		8050		.0369	

明治三十年六月

鉛直磁力 0.34.....+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	373	369	371	377	379	376	369	360	358	353	355	368	374	369	369	368	368	373
2	375	377	377	377	380	382	374	362	357	355	365	377	372	374	372	375	375	377
3	379	379	381	381	385	386	376	363	355	358	360	367	367	378	378	379	374	376
4	385	392	392	391	387	387	376	370	370	374	378	381	383	383	381	383	383	383
5	393	390	394	393	400	390	389	381	375	371	368	375	377	381	381	381	379	377
6	388	388	388	394	394	390	386	376	370	372	372	380	382	390	388	386	384	384
7	393	393	395	395	395	393	381	379	374	...	...	...	368	379	389	390	391	389
8	402	389	387	387	391	396	387	383	385	381	379	383	383	396	398	398	400	400
9	407	402	402	400	402	400	394	391	389	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	399	397	406	410	404	404	406	404	404
11	415	413	410	408	399	403	396	394	392	393	401	403	406	399	399	401	406	408
12	422	417	417	422	424	419	410	405	402	410	410	415	412	407	405	405	405	410
13	416	416	416	424	426	416	406	406	406	399	391	391	391	404	409	409	409	409
14	413	413	413	411	418	418	411	400	393	393	393	393	395	398	398	398	400	400
15	400	400	403	405	405	405	403	395	392	387	384	387	384	397	392	392	395	395
16	392	395	403	414	414	414	406	406	408	417	427	419	406	403	411	403	408	406
17	396	409	406	409	414	403	398	389	395	375	373	395	403	400	398	400	392	414
18	423	423	420	417	423	420	417	411	409	403	409	414	423	420	420	420	433	440
19	432	435	432	430	430	424	424	424	421	4 4	407	413	413	413	424	418	416	421
20	416	419	413	416	416	413	399	383	388	388	394	397	394	399	405	408	408	408
21	402	405	402	400	400	394	391	386	386	383	386	391	408	400	383	386	383	383
22	...	389	389	392	403	400	397	395	389	389	408	413	413	419	424	427	427	424
23	421	416	418	421	424	418	410	408	402	392	394	402	408	405	413	418	418	418
24	409	409	412	409	407	409	415	407	404	395	400	408	411	408	405	403	408	419
25	410	413	413	410	410	413	408	397	395	390	392	400	4 5	403	400	408	410	413
26	408	411	408	408	408	408	406	403	398	385	385	395	398	403	406	408	411	408
27	406	408	406	406	403	401	393	396	391	391	393	396	406	403	406	403	401	403
28	405	403	408	403	400	398	398	385	388	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	365	370	370	385	390	392	390	392	395
30	390	393	395	400	402	400	393	381	385	389	390	...	...	...	...	...	...	...
平均 Mean	4026	4024	4025	4036	4050	4027	3971	3906	3885	3855	3882	3938	3954	3972	3981	3986	3993	4014

空中電氣

1	26	17	18	18	63	63	53	22	11	3	18	22	-20	20	23	14	22	23
2	25	27	28	38	73	87	64	40	26	0	-49	-23	-40	-41	-2	17	16	18
3	28	28	24	26	25	49	70	41	29	23	7	3	18	- 5	3	29	14	13
4	22	29	19	8	45	76	69	55	23	19	24	14	13	11	4	14	11	19
5	28	30	20	27	19	23	−	+	5	12	3	0	3	9	9	14	9	13
6	13*	17*	15*	19*	29*	39*	32*	19*	19*	21*	14*	5*	10*	12*	12*	9*	3*	10*
7	-5*	2*	7*	10*	15*	19*	8*	6*	3*	16*	-6*	-3*	-1*	-2*	13*	19*	27*	33*
8	46	39	32	31	58	58	44	35	27	11	12	9	9	5	7	7	9	±
9	−	±	+	14	41	67	44	35	24	18	15	13	14	12	10	12	9	12
10	34	30	31	35	51	52	41	24	15	10	7	6	8	6	9	6	14	13
11	43	43	60	58	76	93	73	45	26	12	14	9	9	5	6	8	9	12
12	21	23	18	16	17	17	15	5	7	8	12	12	8	11	10	10	15	11
13	16	20	25	31	43	54	41	24	11	9	8	4	4	6	0	8	14	13
14	23	24	21	20	34	28	17	16	9	6	4	10	...	...	...	19	16	17
15	20	26	21	19	21	26	28	19	12	6	4	5	8	7	7	12	12	10
16	-24*	-82*	-27*	-22*	-8*	-60*	-91*	-55*	-39*	-33*	-10*	-37*	10*	10*	14*	12*	11*	13*
17	16	5	13	19	25	45	25	21	14	5	+	−	9	15	15	16	10	10
18	22	26	32	30	56	43	36	19	17	15	13	10	9	7	9	11	11	11
19	15	16	19	26	44	33	22	20	14	9	12	10	7	8	8	10	12	15
20	48	56	28	30	38	47	35	23	15	11	10	5	5	3	0	-3	1	5
21	19	19	19	20	29	35	25	15	15	11	1	-4	-21	-8	-12	-14	-5	-3
22	13	11	9	12	26	25	21	12	7	6	-3	-1	- 3	16	12	10	7	7
23	18	14	16	25	34	43	25	16	13	9	8	0	9	11	10	17*	23	31
24	−*	0*	16*	17*	36*	35*	33*	27*	13*	12*	12*	8*	5*	12*	7*	-4*	7*	7*
25	-5*	-17*	2*	8*	8*	0*	4*	9*	10*	8*	3*	3*	1*	3*	4*	5*	6*	10*
26	19	19	17	19	27	32	27	22	18	16	13	10	14	9	11	11	15	18
27	27	26	26	31	41	49	35	26	18	10	7	8	5	4	2	5	5	9
28	27	30	30	28	52	75	46	30	15	10	6	5	2	3	4	4	6	7
29	37	38	29	37	60	59	64	47	34	19	12	8	12	7	11	8	14	19
30	22	21	21	22	32	36	26	17	9	10	6	-2	3	0	5	7	9	18
平均 Mean	26.1	25.7	24.0	25.6	41.2	48.6	39.4	26.2	16.6	10.7	6.8	5.5	3.5	5.0	6.7	10.0	11.1	13.4

JUNE 1897.

VERTICAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M.N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks.
366	368	333	364	363	369	3676	379	5 00a	353	10 00a	.0³ 26	C
365	367	365	368	368	372	3712	382	6 00a	355	10 00a	27	C, A at night
381	376	376	376	374	378	3743	386	6 00a	355	9 00a	31	A
380	381	380	378	381	389	3820	392	2 00a	370	8 00a	22	C
375	379	379	379	379	381	3820	400	5 00a	368	11 00a	32	C
380	386	386	386	384	386	3842	394	4 00a	370	9 00a	24	C
376	379	379	383	393	395	3861	394	4 20a	368	1 00p	29	C
400	398	400	400	398	400	3925	402	0 00a	381	10 00a	21	C
...	...	...	...	...	...	3985	...	...	...	...	...	C
404	404	404	404	406	406	4041	...	...	...	...	...	C
406	406	410	410	413	408	4044	413	11 00p	392	9 00a	21	C
407	405	407	405	402	410	4106	424	5 00a	402	9 00a	22	C
409	409	406	404	399	406	4074	426	5 00a	391	10 00a	35	C
390	390	388	388	393	393	4000	418	5 00a	390	7 00p	28	C
392	390	387	390	387	397	3943	411	4 30a	384	11 00a	27	C
403	395	400	398	403	403	4064	427	11 00a	392	1 00a	35	C, A afternoon
409	409	409	409	411	414	4012	414	5 00a	373	11 00a	41	S°
431	431	431	434	437	437	4227	440	6 00p	403	10 00a	37	C
416	418	410	416	416	424	4200	435	2 00a	404	10 00a	31	C
402	408	408	408	402	408	4042	421	0 00a	383	8 00a	38	C
386	...	...	...	...	...	3924	...	...	...	...	...	C
424	422	422	422	419	422	4100	427	4 00p	389	2 00a	38	C
410	410	410	410	408	413	4111	424	5 00a	392	10 00a	32	C
408	411	408	408	408	413	4081	415	7 00a	395	10 00a	20	C
400	410	408	410	408	413	4058	416	6 15a	390	10 00a	26	C
398	408	403	400	406	408	4033	413	2 12a	385	10 00a	28	C
398	401	401	403	398	406	4010	408	2 00a	391	9 00a	17	C
...	...	...	...	...	...	3987	...	...	...	...	...	C
392	395	392	395	395	395	3875	...	...	...	...	...	C
...	...	...	...	...	...	3917	...	...	...	...	...	C
3966	3983	3974	3980	3981	4018	3975	4110		3823		.0³ 287	

ATMOSPHERIC ELECRTICITY.

7	12	10	17	21	23	21.1	100	h m 5 22a	−42	h m 0 55p	142	--
22	21	21	22	25	32	18.6	95	5 25a	−157	0 22p	252	--
20	33	47	26	25	18	24 7	77	7 05a	−12	3 18p	89	●°0.10p-3.35p ●°7.25p-
27	27	25	22	9	4	24.9	82	6 20a	−5	11 23p	87	-●°-2.20a
16	27	26	25	26	22	16.6	87	6 32a	−76	6 55a	163	●°0.20a-8.55a ●°10.30a
+	+	+	−	−	−	...	157	7 00p	−123	11 28p	285	-●°-2.22a ●°5.45a-9.15ι ●°3.15p-
35*	33*	28*	32*	36*	40*	...	40	11 33p	−35	0 00a	75	-●°-2.50p
26	47	55	46	25	11	28.2	202	6 12p	−103	5 40p	305	●°4.45p-●11.4 0p-
22	33	33	33	33	30	25 9	76	5 55a	−32	0 45a	108	-●-3.45ι
20	24	36	42	42	49	25.2	54	4 37a	4	1 30p	50	●°4.20p
11	13	13	14	15	19	28.6	102	5 50a	5	2 00p	97	●4.47p-4.59p
16	8	18	17	12	10	13.2	29	1 50a	−3	7 50p	32	●°9.30a-10.52a ●°2.50p-M.N.
16	12	12	10	11	12	16.8	58	5 37a	−3	2 53p	64	●°1.30p-4.30p ●°9.55-11.25p
14	17	18	16	22	24	17.8	34	5 00a	3	10 48a	31	●°5.55a-9.30a
12	11	11	14	12	4	13.6	37	1 38a	1	10 15a	36	●°7.05p-
19*	23*	28*	25*	18*	21*	...	60	11 50a	−103	1 42a	223	●° 0.55a-●°10.30a-1.55p
11	9	10	14	21	20	15.8	50	10 45a	−134	11 50a	184	●°-2.45a ●°.95 0a-1.30p
15	13	15	16	16	16	19.5	63	5 08a	7	1 23p	56	=°4.20a-5.10a
16	28	29	28	30	37	19.5	63	5 25a	7	1 45p	56	--
18	18	18	18	18	19	19.4	73	2 18a	−7	4 20p	80	—
5	16	33	30	14	12	10.5	42	5 40a	−29	3 42p	71	≤N.W.7.5 0p-≦°NW-≤NE-10.30p
15	6	26	12	12	13	11.3	45	8 40p	−4	11 15a	49	●°8.30p-9.25p
25	27	+	+	±	±	18.7	>335	11 10p	<−272	11 35p	>607	●°8.45p-●11 10p-
23*	±	−	18*	18*	17*	...	...	...	<−294	0 55a	...	-●-●°0.50a-2.20a ●°2.10p-●7.20p-
20*	35*	20*	20*	17*	18*	...	45	8 40p	−17	6 20a	97	-●°-3.07p
21	24	27	28	30	30	19.9	36	5 40a	9	2 00p	27	●°11.45a-2.30p
11	14	24	21	28	24	19.0	54	6 10a	2	3 00p	52	—
10	14	18	20	19	26	20.3	82	5 50a	0	1 45p	82	-
19	12	24	25	27	27	27.0	76	7 32a	7	1 42p	69	--
32	3	16	9	—	—	14.6	40	5 50a	<−105	11 30p	>145	●°7.50a-10.35a ●°1.30p-●10.30p-
17.1	18.8	23.5	21.9	21.4	21.0	19.6						

明治三十年七月

偏角 4°W+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	27.0′	30.4′	31.2′	31.1′	31.1′	30.2′	29.0′	28.4′	28.3′
2	27.5	27.5	27.5	27.3	27.1	26.5	25.8	26.2	27.0	28 0	29.2	30.1	30.7	31.1	30.2	28.9	28.6	28.6
3	27.5	27.4	27.4	27.5	26.5	25.6	25.2	25.3	26.1	28.0	28.9	30.2	31.4	31.1	30.4	29.5	28.9	28,6
4	28.1	27.6	27.5	27.4	26 6	26.3	25.9	26.9	27.9	27.5	27.5	27.6	29.6	31.1	31.2	30.5	29.9	28.5
5	28.1	27.9	27.6	27.6	27.5	26.3	25.4	25.7	26.5	27.9	29.7	31.2	32.2	32.4	32.1	31.2	30.6	29.7
6	29.5	29.2	28.6	28.9	28.6	28.0	27.6	27.2	27.2	27.9	29.1	31.2	31.9	33.4	34.0	32.8	31.4	31.3
7	29.2	29.1	28.5	28.5	28.2	27.6	26.1	25.7	25.4	...	28.8	31.0	31.3	31.9	32.8	...	...	...
8	...	...	...	...	...	...	...	...	...	31.0	31.7	32.5	32.8	31.9	31.7	31.3	30.4	29.8
9	29.8	29.2	29.2	28.8	28.0	26.7	26.4	26.6	27.0	28.6	31.0	31.3	31.9	32.0	31.3	31.3	31.3	30.7
10	29.7	29.4	28.9	28.8	28.3	27.5	27.5	27.6	28.3	29.4	31.2	31.9	32.5	32.0	31·6	31.3	29.8	30.0
11	29.4	29.2	28.9	28.8	27.3	26.3	27.2	29.2	31.2	...	...	31.3	31.3	30.6	30.6	30.9	...	...
12	...	30.9	30.4	30.0	28.5	28.3	28.0	26.7	28.6	29.8	31.3	32.2	32.2	31.3	30.4	30.0	29.7	30.0
13	29.8	29.4	29.4	29.4	28.0	26.4	25.7	27.3	29·2	31.3	32 8	33.4	32.8	32.0	31.3	31.3	30.1	29.2
14	29.7	29.7	29.8	29.7	27.3	27.0	26.9	28.2	29.8	31.0	32.2	32.5	32.0	30.6	30.1	29.7	29.4	29.2
15	30.0	28.3	28 3	27.9	28.0	27.6	27.9	27.9	28.3	30.4	32.0	34.0	33.9	33.9	32.9	31.3	31.3	29.8
16	29.1	28.9	29.1	28.5	28.3	27.7	26.3	26.9	27.6	29.7	31.9	33.7	34.0	33.9	32.5	31.3	30.1	29.7
17	29.5	29.5	29.4	29.1	28.9	27.6	26.7	26.7	28.5	29.7	31.3	32.0	33.1	33.9	33.4	32.0	30.3	30.0
18	29.5	28.9	29 2	29.2	28.8	27.3	26.9	27.5	27.9	30.1	31.9	33.4	33.4	32.8	32.0	31.3	30.0	29,5
19	29.1	28.8	28.6	28.8	28 9	28.2	26.1	25.4	25.4	25.8	29.1	31.9	32.8	33.7	32.9	31.3	29.4	29.1
20	29.1	28.8	28 0	28,0	27.0	26.6	25.8	25.7	26.4	29.4	31.3	32.9	33.1	32.6	31.9	30.7	29.7	29.5
21	29.4	29.2	29 2	29.1	28.3	27.5	25.8	25.1	25.8	28.2	30.7	32.2	33.1	32.9	32.0	30.4	29.2	29.4
22	30.4	29 6	29.3	28.7	27.8	26.7	28.1	27.7	29.5	23.3	34.5	35.8	36.2	35.2	34.0	32.0	31.1	30.5
23	29.9	29.2	26 2	29.0	27.8	26.4	26.4	27.4	29.8	29.9	31.4	32.4	33.0	32.9	32.9	31.4	31.3	29.9
24	30.1	29.8	29.0	29.5	29.3	28.0	28.0	28.4	29.6	31.4	32.9	33.0	33.2	33.0	32,9	31.5	30.7	30.5
25	29.0	28.7	28.7	28.4	28.4	28.1	28.0	27.7	29.3	29.9	31.4	32 6	33.0	32.3	31.5	30.7	30.4	29.9
26	29.8	29.3	29.3	29.3	29.2	28.6	28.3	28.4	29.0	30.4	31.4	32.6	34.0	33.6	32.7	31.4	30.1	29.8
27	29.8	29.3	29.3	29.5	29.2	27.6	27.0	27.0	28.7	31.3	32.3	33.2	33.5	33.3	32.1	31.4	30.2	29.6
28	29.3	29.5	29.3	29.2	29.3	27.8	27.6	27.7	28.4	30.7	31.7	32.4	32.3	33.2	32.3	31.4	29.9	29.6
29	29.3	29.3	29.3	29.2	28.7	27.6	27.6	28.6	29.5	31.3	31.3	31.7	32.3	31.5	30.8	32.1	30.4	30.5
30	29.8	29.5	29.6	29.2	29.0	27.4	27.1	27.7	28.6	31.0	32.1	33.6	33.8	32.9	31.4	29.6	30.1	30.5
31	28.7	27.8	28.7	28.9	35 4	26.4	26.2	27.8	28.7	30.1	31.4	34.8	35.4	36.7	36.2	36.2	35.5	33.8
平均 Mean	29.29	29.00	28.87	28.77	28.08	27.23	26.81	27.12	28.11	29.66	31.08	32.25	32.70	32.61	32.01	31.12	30.28	29.84

水平磁力 0.29.....+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	831	837	850	857	858	857	847	843	841
2	838	837	837	837	838	838	832	835	831	840	848	848	850	855	857	857	852	846
3	846	845	844	843	850	845	843	840	843	847	850	854	856	857	850	849	839	835
4	842	846	843	841	845	846	837	828	828	825	837	837	830	839	843	838	834	826
5	827	835	834	836	838	837	832	831	829	833	834	830	823	823	822	823	818	823
6	837	833	834	838	838	840	832	822	818	811	823	835	840	845	843	840	837	833
7	848	844	843	842	843	841	841	834	834	...	833	833	844	842	...	...	...	...
8	...	...	...	...	...	...	...	...	...	820	827	835	835	842	840	835	823	829
9	828	828	830	834	835	835	830	826	828	834	847	842	840	837	837	837	837	835
10	838	838	838	840	845	843	840	830	824	831	844	850	845	843	846	842	836	836
11	841	846	845	846	851	845	842	845	851	848	869	872	865	862	865	852	840	827
12	834	832	833	833	835	834	826	825	818	828	843	851	852	844	834	837	836	835
13	846	843	842	842	842	833	825	825	825	825	840	841	840	840	843	844	842	840
14	841	841	841	841	841	835	831	839	850	853	855	855	855	856	855	847	841	853
15	836	841	829	828	827	833	833	827	827	827	819	819	828	842	841	840	835	835
16	834	834	841	834	828	834	829	822	813	808	811	829	831	833	834	837	835	833
17	837	835	836	837	837	830	821	814	809	812	821	825	838	850	847	835	832	829
18	831	831	831	831	832	831	825	822	819	842	848	847	846	847	846	843	833	831
19	849	839	839	840	833	839	832	824	813	813	824	839	851	850	851	853	846	840
20	848	850	852	852	852	848	840	833	824	832	840	852	845	841	841	841	833	833
21	840	839	835	834	834	834	830	820	813	821	828	833	835	835	826	831	834	833
22	849	850	847	856	856	857	840	843	816	810	814	815	806	801	797	808	811	810
23	817	816	816	816	824	832	837	834	816	823	815	805	814	824	831	817	819	817
24	832	833	835	831	824	824	816	805	790	799	811	813	823	824	811	816	819	820
25	829	836	836	839	839	835	829	830	819	815	822	834	828	824	825	835	832	827
26	835	832	832	832	831	829	827	818	804	808	823	832	837	840	841	839	832	828
27	836	841	841	841	841	835	828	821	809	813	822	826	837	841	843	842	841	839
28	840	832	832	830	830	824	818	815	808	806	811	824	834	835	832	827	826	828
29	837	835	835	835	836	831	825	824	816	826	836	843	844	844	844	844	839	838
30	840	840	837	836	837	832	824	820	826	845	856	858	851	850	851	845	844	852
31	839	845	833	841	841	838	834	837	838	846	841	813	819	807	777	748	727	851
平均 Mean	8378	8378	8369	8374	8382	8365	8313	8272	8220	8257	8332	8368	8387	8397	8377	8350	7305	8301

JULY 1897.

P. M.					夜半	平均	最大		最小		較差	記事
7	8	9	10	11	M.N.	Mean	Maximum		Minimum		Range	Remarks.

MAGNETIC DECLINATION.

28.4	28.3	28.1	28.1	28.0	28.0	29.04	...	...	...	...	...	C
28.4	28.3	28.4	28.3	28.3	28.3	28.24	31.1	2 00 p	25.5	7 06 a	5.6	C
28.6	28.9	28.7	28.4	27.8	28.3	28.17	31.7	1 18 p	25.2	7 00 a	6.5	A
29.0	29.0	28.5	28.5	28.5	27.9	28.29	31.2	3 00 p	25.8	6 48 a	5.4	C
29.7	29.7	29.9	29.7	29.7	29.1	29.06	32.5	1 48 p	25.4	7 00 a	7.1	C
31.3	30.6	30.4	29.2	29.4	29.2	29.91	34.0	3 00 p	27.0	8 15 a	7.0	C
...	...	...	...	...	...	28.86	...	...	...	...	...	C
30.6	30.6	30.3	30.3	30.0	29.7	30.97	...	...	...	...	...	C
30.6	31.3	30.6	30.4	30.4	29.7	29.75	32.2	1 24 p	26.1	7 12 a	6.1	C
30.1	29.8	29.7	29.7	29.7	29.5	29.76	32.6	0 55 p	27.0	7 22 a	5.6	C
...	...	...	...	...	...	29.44	...	...	...	...	...	C
30.4	30.4	30.3	30.1	20.3	29.8	29.98	32.2	Noon	26.7	8 00 a	5.5	C
30.4	31.3	30.9	30.6	30.1	30.1	30.09	33.4	Noon	25.7	7 00 a	7.7	C
30.1	29.2	29.7	30.1	29.5	29.1	29.69	32.5	Noon	26.9	7 00 a	5.6	A
29.4	30.6	30.4	30.6	29.5	29.5	30.15	34.4	0 20 p	27.0	5 38 a	7.4	A
29.2	29.8	29.8	29.8	29.8	29.7	29.89	34.0	1 00 p	26.3	7 00 a	7.7	C
29.8	29.8	29.8	29.7	30.0	29.8	30.03	34.1	2 18 p	26.7	7 00 a	7.4	C
29.7	29.5	29.4	29.2	29.5	29.2	29.84	33.5	0 50 p	26 7	6 30 a	6.8	C
29.7	29.5	29.5	29.1	28.8	29.2	29.21	33.9	2 10 p	**24.8**	9 12 a	9.1	C
29.5	29.4	29.5	29.4	29.5	29.2	29.29	33.1	1 00 p	25.7	8 00 a	7.4	C
29.8	29.7	29.8	29.7	30.3	30.3	29.86	33.1	1 00 p	24.9	8 30 a	8.2	C
30.5	30.5	30.5	30.2	30.1	30.2	30.93	36.9	1 24 p	26.1	6 18 a	10.8	A
30.1	31.1	31.1	30.7	30.5	30.2	30.16	33.2	1 24 p	25.8	6 16 a	7.4	A
30.2	29.8	29.9	29.8	29.8	29.2	30.40	33.3	0 38 p	27.8	6 42 a	5.5	C
29.9	30.7	30.2	30.2	29.9	29.8	29.95	33.3	0 40 p	27.6	7 36 a	5.7	C
29.8	30.1	30.1	39.9	29.9	29.8	30.28	34.1	1 15 p	27.7	7 32 a	6.4	C
29.8	30.5	31.4	31.0	30.2	29.9	30.30	33.5	1 00 p	26 5	7 26 a	7.0	C
30.1	30.4	30.4	29.9	29.8	29.5	30.07	33.2	2 00 p	47.4	7 30 a	5.8	C
30.7	30.4	30.2	30.2	30.1	29.9	30.10	32.4	1 34 p	27.4	6 30 a	5.0	C
31.4	31.4	31.5	30.8	29.0	29.9	30.29	33.8	1 00 p	27.0	6 20 a	6.8	A
32.9	32.9	30.8	32.1	31.8	31.8	31.29	**37.1**	2 10 p	26.1	7 10 a	10.9	S
30.00	30.12	29.99	29.85	29.66	29.51	29.76	33.34		26.40		6.94	

HORIZONTAL MAGNETIC INTENSITY.

								h m		h m		
837	840	841	842	838	838	8438	...	...	...	...	...	C
845	848	850	850	843	847	8441	858	2 20 p	831	8 50 a	0[3] 27	C
835	831	834	836	838	839	8437	861	1 08 p	831	8 00 p	30	A
823	825	830	831	833	837	8352	851	5 30 a	822	7 12 p	29	A
824	827	830	832	822	836	8291	839	5 20 a	818	5 00 p	18	A
832	834	835	843	842	847	8347	850	9 42 p	811	10 00 a	39	C morning, A afternoon
...	...	...	...	...	...	8402	...	...	...	...	...	C
827	833	829	827	829	829	8307	...	...	...	...	...	A
835	834	827	840	838	838	8351	848	11 08 a	825	8 15 a	23	A
837	847	847	845	847	843	8406	850	11 54 a	822	8 50 a	28	A
824	828	827	823	826	832	8447	**874**	11 30 a	822	10 05 p	52	A morning, C afternoon
834	838	839	843	843	843	8362	852	1 00 p	818	8 20 a	34	C
831	834	833	835	838	839	8370	846	1 00 a	825	7 20 a	21	C
853	870	864	848	848	849	8484	873	8 07 p	831	7 00 a	42	C, S° at night.
836	836	843	835	835	841	8330	850	0 00 a	819	11 00 a	31	A
834	834	839	840	838	837	8309	842	0 00 a	808	10 27 a	34	A
829	829	829	830	829	829	8300	851	2 14 p	808	8 50 a	43	A
831	831	837	839	838	839	7355	848	11 00 a	816	8 50 a	32	C
841	845	848	850	853	845	8401	853	4 00 p	812	9 28 a	41	C
833	833	833	834	834	839	8401	854	3 16 a	821	8 40 a	33	C
834	834	840	845	846	844	8332	846	11 00 p	813	9 00 a	33	C
806	810	810	809	816	815	8230	860	5 57 a	793	1 42 p	67	A
323	822	824	825	829	828	8218	837	7 0 1 a	803	11 40 a	33	A
826	828	832	831	831	831	8210	835	3 00 a	790	9 00 a	45	A
825	826	831	828	831	834	8295	840	4 33 a	813	9 28 a	27	A
831	830	831	833	832	835	8297	846	2 28 p	803	9 13 a	43	C
833	822	822	824	828	830	8315	846	3 10 p	809	9 28 a	37	A
829	830	829	832	832	836	8267	840	0 58 a	806	10 00 a	34	A
938	844	844	844	838	838	8366	845	0 30 p	815	8 52 a	30	C
853	850	840	837	837	830	8413	858	Noon	820	7 40 a	38	A
778	780	784	774	782	790	8068	849	2 10 a	**727**	5 00 p	122	S
8306	8321	8337	8335	8338	8353	8339	8506		8119		0[3] 381	

明治三十年七月

鉛直磁力　0.34.....+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	383	390	395	385	399	402	399	397	399
2	395	397	395	395	395	395	392	388	383	378	390	402	399	399	397	392	399	392
3	387	387	387	389	391	387	382	380	380	370	363	368	375	368	375	377	377	377
4	377	377	377	377	377	377	365	370	370	356	363	356	356	356	363	370	368	363
5	359	359	359	359	364	359	354	352	350	350	357	343	352	345	350	350	348	350
6	348	348	346	348	348	348	346	339	332	328	326	326	328	328	332	332	335	339
7	338	332	338	334	332	334	334	327	332	...	...	...	...	...	..	...	...	...
8	...	...	...	...	...	...	...	...	...	324	333	337	339	346	350	348	345	350
9	353	354	355	360	358	357	349	344	345	340	352	352	357	358	358	355	358	357
10	357	358	358	359	359	357	350	348	348	345	342	343	348	349	352	350	348	352
11	350	351	353	354	356	350	342	340	347	346	355	351	351	350	354	350	345	341
12	353	353	352	350	352	350	350	347	340	342	346	350	350	346	349	349	344	343
13	351	352	351	352	351	346	341	334	340	341	349	347	345	344	344	347	350	350
14	355	356	356	360	359	353	346	349	346	361	369	370	370	371	370	362	361	365
15	361	364	361	368	365	362	361	357	361	360	353	355	361	374	374	373	372	373
16	373	374	376	373	373	379	368	363	356	353	353	361	364	365	366	370	370	371
17	374	374	376	376	377	375	367	366	358	341	337	343	349	352	360	366	354	360
18	369	369	368	370	372	368	361	353	348	354	355	355	361	365	367	365	366	367
19	374	373	371	371	373	373	369	366	346	341	348	353	355	358	368	369	367	365
20	369	369	366	369	369	368	360	351	335	335	343	347	344	349	353	358	355	360
21	364	365	363	363	363	364	356	346	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	330	334	335	341	343	332	333	339	341	340
23	341	340	342	342	343	343	338	335	332	330	330	325	330	332	335	329	330	325
24	338	336	339	338	335	334	333	325	313	320	327	328	331	328	322	323	325	326
25	327	327	329	330	329	320	326	326	329	327	327	327	322	324	327	328	327	328
26	329	328	329	331	331	333	330	324	312	321	327	330	328	327	324	323	321	322
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	327
28	334	333	333	334	334	331	327	319	303	307	311	316	316	318	319	319	319	321
29	330	330	330	331	331	328	326	321	312	318	326	325	328	330	332	330	331	332
30	334	334	334	337	338	337	330	325	319	322	322	322	327	331	330	330	330	336
31	333	333	337	339	337	336	335	331	325	329	324	316	321	327	320	316	319	331
平均 Mean	3546	3546	3549	3559	3564	3546	3496	3454	3403	3413	3447	3459	3477	3490	3509	3506	3501	3504

空中電氣

1	–	–	–	–	–	–	–	–	14	11	8	7	4	4	5	3	8	10
2	11	12	8	7	8	15	4*	2*	8*	11	12	11	11	7	8	8	4	21*
3	11	8	13	23	22	25	27	22	5	9	4	9	4	3	3	2	2	3
4	14	10	12	12	14	16	12	13	9	2	2	2	2	4	6	4	8	10
5	3	8	8	11	16	19	14	12	4	6	8	6	9	6	5	5	7	10
6	24	27	29	26	43	33	25	18	15	13	11	7	10	2	2	6	3	8
7	14	12	15	19	29	44	32	37	28	24	11	13	16	3	7	3*	-30*	11
8	16	23	26	29	38	39	23	21	12	3*	-5*	0*	1*	5	6	10	7	13
9	4	4	2	5	13	19	25	21	8	7	5	7	7	4	4	6	10	6
10	17	17	12	14	19	22	17	9	7	3	6	8	3	3	10	6	8	10
11	11	11	12	12	14	19	13	11	6	5	4	-2	2	2	1	-1	-2	0
12	17	17	17	16	17	18	20	17	15	9	4	0	0	3	±	±	±	±
13	9	3	6	5	9	5	-5*	5	6	4	±	+	-2*	0*	2	5	8	6
14	13	-5*	-8*	0*	2	6	10	10	4	-3	2	2	5	2	5	8	11	–
15	-2	-3	2	2	12	14	10	5	4	4	-2	-3	2	1	2	2	4	9
16	10	8	9	8	11	15	12	10	6	1	5	3	3	4	4	5	7	8
17	10	10	9	5	9	7	7	7	5	4	8	3	0	3	5	9	10	12
18	7	-7*	±	±	–	±	-13*	25	6	7	0	0	1	2	-5	-5	-2	0
19	6	7	4	4	4	3	4	3	-4	3	5	6	4	1	1	0	0	2
20	10	10	11	11	15	16	14	3	11	3	5	0	0	0	3	3	4	4
21	6	4	2	2	2	4	4	6	7	6	2	3	3	1	-1	2	4	5
22	3	2	3	4	5	8	8	11	5	3	4	3	3	4	3	5	7	8
23	8	9	11	15	3	12	9	6	4	3	5	7	2	6	8	7	12	13
24	8	7	6	8	16	26	29	18	11	9	11	10	5	8	9	14	16	16
25	7	7	9	7	13	29	14	16	16	9	9	8	5	5	5	4	5	7
26	10	7	7	15	33	61	37	27	14	12	9	10	10	4	3	4	5	8
27	13	10	8	8	36	46	22	12	8	7	3	4	8	7	4	8	5	8
28	14	10	10	10	20	31	24	14	9	5	4	4	7	5	7	10	16	21
29	19	16	17	14	19	22	25	20	4	-1	-1	-1	6	4	4	1	–	+
30	5	3	5	4	9	15	9	10	-5	*5	9	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	12	6	5	7	7	6	2
平均 Mean	10.3	9.6	10.1	14.7	16.1	21.0	17.2	13.9	8.4	6.2	5.5	5.0	4.9	3.7	4.2	4.9	6.4	8.1

JULY 1897.

VERTICAL MAGNETIC INTENSITY.

P. 7	P. 8	P. 9	P. 10	P. 11	夜半 M.N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
								h m		h m		
395	397	397	395	395	399	3950	...	...	...	...	...	C
390	390	385	388	385	390	3921	402	noon	378	10 00 a	24	C
370	375	373	373	355	373	3775	391	5 00 a	363	11 00 a	28	C
359	359	359	356	354	361	3652	379	5 24 a	354	11 00 p	25	C
350	350	348	348	348	350	3522	364	5 00 a	343	noon	21	C
337	341	341	341	339	346	3384	350	6 20 a	324	10 52 a	26	C
...	...	...	...	...	...	3334	...	...	...	...	...	C
348	343	346	349	349	353	3440	...	...	...	...	...	C
349	349	350	352	351	354	3528	360	4 00 a	340	10 00 a	20	C
345	351	348	348	352	352	3508	359	5 00 p	342	11 00 a	17	C
340	347	341	340	347	349	3479	356	5 00 a	340	8 00 a	16	A
341	347	348	346	346	350	3477	353	2 00 a	340	9 00 a	13	C
344	349	346	348	345	352	3466	352	4 00 a	334	8 00 a	18	C
364	369	367	357	361	364	3609	371	2 00 p	346	9 00 a	25	C morning, S° night
372	373	376	374	373	377	3667	377	M.N.	353	11 00 a	24	A
373	376	377	376	376	376	3692	379	6 00 a	352	11 10 a	27	A
363	367	368	370	368	367	3626	397	5 00 a	337	11 00 a	40	A
370	372	375	374	373	374	3655	375	9 00 p	348	9 00 a	27	A
367	369	369	369	369	367	3645	375	0 00 a	341	10 00 a	34	C
361	362	364	365	364	365	3575	370	3 16 a	334	8 54 a	36	C
...	...	...	...	...	...	3605	...	...	...	...	...	C
342	341	343	340	340	340	3384	...	...	...	...	...	A
332	332	335	335	335	336	3345	343	5 00 a	324	11 45 a	19	C
328	328	331	330	329	329	3290	339	3 00 a	313	9 00 a	26	C
327	329	328	327	329	328	3274	330	4 00 a	322	1 00 p	8	C
322	325	...	...	...	...	3263	...	...	...	...	...	—
323	327	328	328	334	334	3287	...	...	...	...	...	—
326	328	327	330	330	330	3235	334	4 00 a	301	8 50 a	33	C
333	335	334	334	334	334	3290	335	8 00 p	308	9 08 a	27	C
337	337	333	334	334	334	3311	338	5 00 a	319	9 00 a	19	A
345	347	347	341	345	347	3325	348	8 30 p	313	0 10 p	35	S
3501	3522	3530	3524	3529	3547	3502	3607		3362		245	

ATMOSPHERIC ELECTRICITY.

6	9	11	13	12	12	8.6	15	h m 8 45 a	<-111	h m 0 a-5 a	>126	-●-●°9a-7.10p,9.50p-10.10p,11.00p
—	55*	19	12	7	11	10.1	69	8 16 p	-39	7 00 p	108	●°4.10a-10.45a ●°5.50p-10.50p
5	7	12	7	12	10	10.3	34	7 18 a	00	10 45 a	34	—
11	9	9	7	16	±	8.9	22	7 22 a	-32	11 40 p	54	≡°3.40a-7a●°11.05a-11.10a◟7p-8p
11	15	23	26	19	21	10.9	31	10 18 p	-7	0 42 a	38	≡°4a-4.20a
10	15	14	15	10	12	15.7	45	5 14 a	0	5 24 p	45	—
17	14	28	31	33	1*	20.9	51	7 20 a	-39	4 54 p	90	●°4.40a-●3p-●°6.13p-9.50p●10.55p-
9	5	1*	8	7	12	16.3	44	5 50 a	-19	11 15 a	63	-●-0.40a●°7.50a-8 50a●°9 28a-1.10p●°8.15p-
16	18	13	12	13	14	10.1	27	7 28 a	-6	1 14 a	33	-●°-6.40a
10	12	14	13	7	9	11.1	24	6 00 a	2	9 23 a	22	●°5.55p-8.20p
5	7	9	13	19	19	7.9	22	11 48 p	-2	4 40 p	24	⌈ζ°11.30p- ⌈p-8.50p
±	±	-2*	9	9	9	11.6	>153	7 20 a	<-110	3 30 p	>263	-⌈ζ°-0.35a◟°1a.-2a⊤ 2p-⌈ζ2.46p-⊤-6.25p●°2.54
9	8	9	11	9	-20*	6.6	50	10 28 a	-59	10 46 a	109	●0.5)a-2.25p●°11.30p-●m.n. ⌈505p-850°p
±	±	-1	-6	-2	0	6.8	>159	7 45 p	<-116	6 30 p	>275	-●-●°-7.45a.,●6.18p-●²-●-●°-9.35p⊤⊤°⌈ζ⌈ζ²◟
8	8	9	7	8	8	4.6	16	5 10 a	-3	noon	19	●°0.50a-1.50a,8.30a-8°.45a,1p-1.15p, 8.40-9.20p, ⌈11.50p
10	12	11	9	12	11	8.1	15	5 42 a	0	noon	15	-●°-1.30a,6.30a-10.20a1.35p-2.20p,4.30p-9.20p-
10	10	10	10	9	5	7.4	13	6 00 p	-2	1 28 p	15	●°6.30p-9.40p ⌈𝒻3.a
0	1	2	3	4	4	2.8	79	3 26 a	-95	5 20 a	174	●° 0.50a-●²1,30a-●2.50a-●²3.50a●°8.15)-8.50a.
3	9	10	11	13	11	4.6	13	11 00 p	-7	9 05 a	20	●° 6.45a-10.40a ⌈Noon.
6	7	6	6	6	6	6.7	17	9 10 p	0	2 20 p	17	●°-7.45a-● ²7.55a-●° 8.05a-8.20a ●° 1p-5.10p,𝒻
5	4	5	5	7	5	3.9	13	8 36 a	-1	2 55 p	14	●°4a-4.15a●°8p-8.20p
8	8	7	6	8	7	5.5	14	8 00 a	0	1 28 a	14	●°2a-3.20a≡°4.10a-6.30a
13	12	12	12	13	11	8.9	19	4 22 a	-5	4 40 a	24	≡°2.10a-4.30a
12	11	13	9	8	12	12.2	32	6 50 a	-4	0 56 p	36	— ⌈8.40p
11	12	11	10	10	10	10.0	36	5 53 a	-4	1 12 p	32	≡5.05a-≡²-≡-≡²-≡-≡²-≡-≡°-8.15a◟7.10p-
11	12	12	13	9	11	14.3	66	5 56 a	1	3 42 p	65	≡4.05a-≡²-≡-≡²-≡°-10a
16	20	18	14	13	13	13.0	55	6 10 a	-3	5 33 p	58	≡3.50a-≡²-≡°-8.1◟7.30p-9.30p
22	24	23	22	24	24	15.0	32	5 50 a	3	11 50 a	29	≡°5a-6.30)◟8p-10p
+	-2*	9	14	6	4	10.0	58	6 42 p	<-97	4 44 a	>155	●°4.30p-●●²-5⌊ ●°10.40p-
...	...	...	...	...	...	7.2	...	...	...	...	...	-●°0.30a-●° 1.25p-5.30⌊ ●°M.N.-
3	7	1	1	0	9	5.1	...	...	...	...	...	-●°-2.35a-●°4.40a-7.40)●°5.50p-6.45p.,10.55p
9.5	10.6	11.4	10.8	10.7	10.4	9.5						

明治三十年八月

偏角 4°W+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 1	2	3	4	5	6
1	30.4	30.3	29.7	28.9	28.3	28.2	27.7	27.6	28.9	...	32.6	...	32.2	32.0	31.7	30.4	29.1	28.6
2	28.9	28.6	27.9	27.7	27.0	26.3	26.3	26.6	28.5	30.4	32.3	33.2	34.5	33.4	32.3	30.4	30.4	28.9
3	28.6	28.3	27.8	27.5	27.5	27.2	27.7	26.7	26.4	27.1	29.8	32.9	33.5	33.1	32.1	31.2	29.8	28.7
4	28.7	28.3	28.6	28.3	28.1	27.5	27.2	27.7	...	...	...	...	...	...	...	...	...	...
5	...	29.3	28.7	29.2	29.0	28.3	27.7	27.4	27.5	38.6	30.5	32.0	32.0	32.3	32.0	30.5	29.8	29.3
6	29.0	28.7	28.6	28.6	28.7	28.0	27.5	...	27.2	28.0	29.8	30.9	32.3	33.5	33.3	32.0	30.5	29.5
7	29.1	29.1	28.8	28.7	28.7	27.9	26.5	25.6	26.2	27.8	28.7	30.6	32.1	32.2	31.9	30.6	29.9	29.4
8	28.8	28.5	28.5	28.5	27.8	27.6	26.6	26.8	27.2	28.7	30.3	30.6	32.1	32.4	32.1	31.3	30.6	...
9	29.7	29.1	28.7	28.8	27.9	27.5	26.9	26.3	27.6	28.8	29.6	...	...	...	...	29.4	...	...
10	28.2	29.9	27.3	26.9	27.3	27.5	28.8	27.9	29.0	29.4	30.6	31.9	32.1	32.4	32.5	32.1	31.0	30.5
11	29.4	29.3	29.1	28.8	29.0	27.8	27.2	27 8	28.1	28.8	31.3	32.4	32.8	31.9	31.3	30.0	29.3	29.1
12	29.2	29.0	29.0	29.0	28.6	27.9	27.9	27.9	28.0	29.6	31.2	32.0	32.1	32.0	31.7	30.5	29.3	29.2
13	29.2	29.0	28.7	28.7	28 6	27.9	27.9	27.5	29.2	31.7	33.3	34.5	33.9	32.7	31.4	29.5	28.6	28.7
14	29.2	29.0	28.7	28.6	27.9	27.2	26.5	26.2	28.3	30.5	32.4	33.2	32.9	32.7	31.7	30.9	29.2	29.0
15	29.5	29.5	29.0	29.0	28.7	28.1	28.0	27.7	29.2	30.9	32.1	32.9	33.2	32.7	32.6	31.2	29.9	29.3
16	29.0	28.7	28.6	28.1	28.3	28.3	28.1	27.8	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	29.0	31.4	32.3	33.5	33.5	33.6	32.3	31.1	29.8	29.2
18	30.1	29.6	29.2	29.0	28.7	27.8	28.0	28.3	29.6	31.8	32.1	33.5	34.5	34.6	33.3	31.5	30.5	29.5
19	29.8	29.6	29.3	29.0	28.9	28.0	27.8	27.8	29.0	31 2	32.3	33.5	33.2	33.1	31.8	30.8	30.5	30.5
20	28.3	28.3	28.3	28.6	28.3	27.8	27.5	28.0	29.8	31.4	32.9	33.5	33.6	32.9	31.7	32.4	32.4	30.5
21	29.2	28.3	28.1	28.0	27.8	26.8	26.1	27.2	29.2	32.7	33.5	33.3	33.1	32.7	32.0	31.2	29.8	29.6
22	29.4	29.4	28.8	28.9	28.9	27.9	27.7	28.6	31.0	32.3	32 6	32.3	31.9	31.3	30.3	28.6	28.3	28.9
23	29.1	28.9	28.9	28.6	27.7	26.0	26.0	27.7	29.1	30.4	31.4	31.9	32.0	31.1	30.0	29.8	29.5	29.7
24	29.4	28.9	28.9	28.6	28.3	27.0	27.4	27.9	29.5	30.7	31.9	32.5	32.6	31.4	30.4	29.1	29.2	29.7
25	28.6	28.8	28.9	28.6	28.5	27.4	27.1	28.2	28.9	30.7	32.0	31.9	31.9	31.4	31.3	30.0	29.5	29.7
26	28.2	28.5	28.2	28.0	27.6	26.4	26.0	26.3	28.9	31.9	32.6	33.0.	32.6	31.7	30.4	29.7	28.6	29.2
27	28.9	29.1	28.9	28.8	28.6	27.0	26.6	27.4	29.4	32.0	33.5	34.2	34.1	32.0	30.1	28.6	28.2	29.1
28	28.9	28.9	28.8	28.6	28.6	27.3	27.1	27.7	29.5	32.2	34.8	34.4	34.1	32.6	30.4	28.9	28.5	28.3
29	29.4	29.1	28.9	28.9	28.6	26.3	26.2	27.4	31 6	33.7	35.6	34.8	34.0	32.2	30.4	29.5	28.6	28.9
30	29.1	28.9	28.6	28.2	27.7	25.5	26.0	27.6	30.4	33.1	34.8	34.8	34.4	33.2	31.1	29.7	28.6	30.0
31	29.1	28.8	28.0	28.8	27.4	26.8	26.1	27.0	27.9	29.7	31.6	33.4	33.2	32.6	31.4	30.1	28.6	29.2
平均 Mean	29.12	28.92	28.65	28.53	28.23	27.37	27.14	27.40	28.76	30.55	32.05	32.87	33.01	32.49	31.55	30.38	29.57	29.34

水平磁力 0.29.....+

1	795	802	803	811	817	801	801	807	814	821	824	827	825	926	822	817	812	811
2	813	816	817	819	818	816	806	805	802	806	810	817	806	915	817	817	819	819
3	831	823	827	827	830	832	822	818	813	808	805	816	820	...	...	828	832	832
4	829	832	831	833	834	829	819	808	806	813	813	813	821	825	831	823	829	828
5	832	835	834	836	839	838	834	826	827	829	817	819	822	830	839	839	836	823
6	835	834	835	836	839	838	837	...	821	821	825	823	820	825	840	849	850	844
7	842	842	842	842	844	845	846	840	839	840	842	836	833	836	846	851	852	850
8	851	852	847	848	848	851	855	845	844	845	850	856	855	849	855	853	844	841
9	849	851	854	848	845	851	846	845	854	864	882	891	884	885	877	868	856	849
10	856	851	846	838	838	837	831	826	823	832	837	845	849	850	849	847	841	841
11	839	839	837	839	838	835	825	819	827	834	837	841	844	837	841	843	841	841
12	840	840	840	838	835	838	834	830	824	824	...	830	836	838	838	840	841	836
13	837	839	841	841	837	832	828	817	802	809	821	827	835	839	844	851	843	837
14	828	829	829	827	826	824	822	820	808	813	819	827	831	835	837	829	824	825
15	830	824	813	825	824	827	822	811	804	803	810	817	831	840	842	844	842	839
16	838	840	838	838	833	840	826	810	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	825	832	832	832	837	844	847	848	842	826
18	833	840	835	832	835	834	824	817	811	812	811	813	824	829	825	817	815	811
19	819	825	824	821	823	823	816	809	804	811	815	818	831	835	839	831	817	805
20	821	821	822	828	829	830	824	815	810	820	827	832	820	811	830	810	772	803
21	813	820	824	821	829	824	814	808	797	798	807	817	823	825	824	823	826	825
22	820	822	822	818	822	817	811	798	895	802	812	821	829	835	841	840	833	828
23	828	824	825	830	830	826	815	809	812	811	822	834	843	845	847	844	838	830
24	826	828	825	825	826	818	812	813	815	815	821	832	833	831	828	826	827	828
25	825	824	826	827	827	820	815	812	806	808	813	822	828	837	834	824	820	825
26	827	827	830	832	826	821	810	797	789	794	802	814	819	815	817	819	817	813
27	823	821	824	825	821	815	802	791	786	795	807	821	836	842	834	829	824	819
28	826	822	821	816	817	818	799	793	786	787	...	819	829	830	829	822	817	813
29	818	821	822	823	822	813	801	794	788	791	795	807	814	822	826	825	825	820
30	824	824	827	824	825	819	805	791	790	798	811	841	851	844	830	824	832	830
31	823	821	825	817	821	813	812	809	804	811	812	816	825	830	830	823	823	823
平均 Mean	8290	8296	8295	8295	8299	8275	8201	8132	8109	8149	8207	8275	8318	8347	8365	8335	8293	8275

AUGUST 1897.

MAGNETIC DECLINATION

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
27′.9	29′.7	29′.7	30′.4	29′.4	28′.9	29′.66	32′.6	h m 11 00a	27′.6	h m 8 00a	5′.0	C, S° Late at Night
29.1	29.2	29.1	29.1	28.9	28.9	29.50	34.5	1 00p	26.0	5 40a	8.5	A Early in morning, C
28.7	29.8	29.5	29.8	29.0	29.0	29.24	33.5	1 00p	26.1	8 40a	7.4	C
...	...	...	...	...	...	28.05	...	...	...	...	...	C
29.5	29.6	29.5	29.9	29.8	29.6	29.65	32.3	2 00p	27.4	8 00a	4.9	C
29.3	29.5	29.5	29.8	29.8	29.5	29.72	33.5	2 00p	27.1	8 10a	6.4	C
29.3	29.9	29.7	29.9	29.3	29.1	29.21	32.2	2 00p	25.6	8 00a	6.6	C
...	...	...	29.9	29.7	30.3	29.41	32.4	2 00p	26.2	7 50a	6.2	C
...	...	...	...	30.0	29.0	28.52	...	...	...	...	...	C morning, A afternoon
29.9	30.6	30.6	30.0	29.9	29.6	29.75	32.5	3 00p	26.9	4 00a	5.6	A morning, C afternoon
29.9	29.9	29.6	29.4	29.9	29.6	29.65	32 8	1 00p	27.2	7 00a	5.6	C
29.3	29.0	29.6	29.4	29.7	29.4	29.60	32.2	1 00p	27.6	6 35a	4.6	C
28.9	29.0	29.6	29.8	29.8	29.8	29.91	34.5	Noon	27.5	8 00a	7.0	C
29.5	29.8	30.2	30.5	29.9	29.6	29.73	33.2	Noon	26.2	8 00a	7.0	C
29.8	29.8	30.2	29.6	29.6	29.5	30.08	33.2	1 00p	27.5	7 30a	5.7	C, A Late at Night
...	...	...	...	...	...	28.36	...	...	...	...	...	C
29.9	30.5	29.9	29.9	29.8	30.1	30.99	...	...	...	...	...	C
29.9	30.1	30.2	30.2	30.1	30.2	30.56	34.9	1 55p	27.8	6 00a	7.1	C
30.5	30.5	30.5	29.6	29.5	29.5	30.26	33.8	0 30p	27.4	7 25a	6.4	C
30.2	30.5	30.5	30.1	29.8	29.3	30.27	33.9	1 05p	27.5	6 30a	6.4	C morning, A afternoon
29.8	30.1	30.5	30.1	30.5	29.8	29.97	34.2	11 10a	25.8	6 50a	8.4	C
29.7	29.5	29.4	29.5	29.2	29.1	29.73	32.6	11 00a	27.1	6 15a	5.5	C
30.4	29.7	29.7	29.5	29.1	29.4	29.40	32.0	1 00p	24.5	6 25a	7.5	C
30.1	30.4	30.4	30.0	29.8	29.5	29.73	32.6	1 00p	26.4	6 22a	6.2	C
30.4	30.1	29.4	29.7	29.4	29.1	29.65	32.0	11 00a	27.1	7 00a	4.9	C, A Late at Night
30.4	30.1	30.0	30.1	29.7	29.2	29.47	33.0	Noon	25.8	6 37a	7.2	C
29.7	30.0	29.7	29.4	30.0	29.8	29.80	34.2	Noon	26.0	6 30a	8.2	C
29.4	29.4	29.5	29.5	29.5	29.7	29.86	34.8	11 00a	26.7	6 42a	8.1	C
29.7	29.7	29.8	29.7	29.5	29.5	30.08	35.6	11 00a	25.8	6 25a	9.8	C
30.7	30.4	29.5	29.8	29.5	28.9	30.02	35.1	0 30p	25.1	6 35a	10.0	A
29.4	28.9	29.7	30.1	29.4	30.0	29.47	33.4	Noon	26.1	7 00a	7.3	A
29.68	29.84	29.83	29.81	29.64	29.48	29.70	33.39		26.59		6.80	

HORIZONTAL MAGNETIC INTENSITY

817	819	837	856	842	827	8181	871	h m 9 42p	790	h m 0 00a	.03 81	C, S° Late at night
822	824	828	825	827	830	8164	830	M.N.	796	0 50a	34	A Early in morning, C
828	820	824	826	828	828	8235	836	5 20a	805	9 45a	31	C
830	821	831	832	831	835	8253	835	M.N.	806	9 00a	29	C
833	834	832	831	832	832	8316	839	5 00a	817	11 00a	22	C
842	841	842	841	841	840	8356	853	4 20p	820	8 10a	33	C
847	846	848	848	850	848	8440	854	4 45p	833	0 47p	21	C
843	839	841	844	848	849	8480	856	0 20p	839	8 00p	17	C
857	859	846	846	843	846	8582	893	0 05p	845	5 00a	48	C morning, A afternoon
839	843	843	839	839	841	8409	859	0 55a	821	8 40a	38	A morning, C afternoon
838	842	844	845	844	841	8380	847	0 47p	817	8 10a	30	C
835	836	836	536	836	836	8355	842	2 45p	818	10 47a	24	C
841	835	835	833	829	836	8329	851	4 00p	817	8 00a	34	C
824	821	824	826	829	835	8255	837	3 00p	807	8 40a	30	C
834	839	841	842	836	838	8282	844	4 00p	802	8 50a	42	C, A Late at Night
...	...	...	...	...	...	8329	...	...	...	...	...	C
816	808	818	828	832	832	8312	...	...	...	...	...	C
806	808	810	814	818	818	8205	843	2 15a	806	7 00p	37	C
804	808	808	813	817	819	8181	839	3 00p	800	8 40a	39	C
818	818	818	817	816	810	8176	837	11 50a	769	5 12p	68	C morning, S° afternoon
823	820	819	820	819	820	8183	829	5 00a	795	9 25a	34	C
827	827	827	827	832	831	8224	846	3 25p	793	8 50a	53	C
829	830	831	828	832	828	8288	848	2 55p	808	9 45a	40	C
829	839	839	826	826	826	8256	833	1 00p	812	7 00a	21	C
818	820	833	829	829	828	8229	842	2 15p	806	9 00a	36	C, A Late at Night
809	813	817	817	822	824	8146	832	4 25a	789	9 00a	43	C
826	826	823	819	820	826	8190	843	1 50p	781	8 40a	62	C
809	815	815	811	812	818	8141	830	2 00p	785	9 20a	45	C
817	811	817	824	826	823	8144	826	3 00p	787	8 52a	39	C
828	826	836	838	837	837	8247	852	1 05p	787	8 40a	65	A
815	819	819	814	821	818	8185	831	2 40p	801	8 45a	30	A
8268	82-72	8294	8298	8305	8307	8272	8441		8052		.03 388	

明治三十年八月

鉛直磁力　　0.34.....+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	347	348	347	348	352	346	343	336	314	311	313	333	334	340	345	347	347	349
2	353	352	353	353	353	351	345	345	328	331	334	...	...	...	...	...	...	...
3	338	337	336	338	341	338	333	331	321	321	321	324	329	322	326	331	334	328
4	322	322	322	324	328	325	322	318	313	320	318	325	324	325	324	329	332	332
5	325	328	331	330	331	335	330	330	348	346	346	346	349	353	358	359	353	351
6	355	355	355	346	354	357	355	...	361	370	376	373	374	381	386	389	387	386
7	385	385	385	385	385	389	391	379	376	376	380	374	374	377	382	385	385	389
8	384	386	384	384	386	386	386	371	363	367	365	370	370	370	371	368	368	367
9	369	371	371	369	369	371	369	356	361	360	364	368	369	368	358	358	356	356
10	368	365	361	363	361	361	358	356	348	349	351	353	351	351	351	351	354	354
11	360	358	360	361	363	358	356	354	349	353	354	354	356	356	361	360	356	358
12	360	362	362	362	362	362	360	354	349	347	347	352	356	360	360	360	360	362
13	365	363	365	366	365	365	363	355	336	340	346	347	351	357	359	359	353	351
14	359	361	261	361	363	363	359	353	340	344	345	345	345	347	349	345	347	347
15	359	361	369	361	361	361	359	353	347	344	347	355	361	363	363	363	365	365
16	368	368	370	375	375	381	377	364	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	363	363	363	365	367	376	376	373	378	369
18	379	381	383	381	381	381	377	372	366	368	377	379	379	379	375	364	366	366
19	382	387	385	382	385	385	382	380	366	371	377	377	380	373	371	366	366	364
20	385	385	387	392	390	390	387	385	364	367	376	371	364	364	364	367	362	371
21	379	379	379	379	381	379	372	365	353	353	357	360	360	365	365	365	367	369
22	375	378	375	375	375	375	371	366	358	361	366	371	375	373	373	368	366	363
23	375	373	375	380	375	370	363	363	358	360	363	370	365	365	363	363	363	363
24	375	375	375	377	372	369	354	362	362	356	354	354	364	369	364	369	369	369
25	361	363	363	366	368	363	358	353	335	347	352	358	358	358	360	355	355	358
26	353	355	360	358	355	350	350	348	340	342	350	353	358	358	350	348	348	350
27	352	355	352	352	347	344	334	332	315	337	352	364	373	371	359	354	352	350
28	361	360	358	354	359	355	345	336	337	333	336	351	355	351	351	344	340	340
29	351	253	354	354	355	345	335	324	321	325	332	341	346	345	345	344	345	344
30	353	354	355	353	354	347	332	323	326	329	340	350	354	348	343	338	343	345
31	348	348	350	349	351	347	346	339	336	337	344	348	350	349	348	345	347	348
平均 Mean	3615	3623	3624	3626	3632	3616	3574	3518	3451	3476	3515	3562	3583	3591	3586	3575	3574	3571

空中電氣

1	4	10	8	8	16	23	26	11	6	5	5	6	3	2	2	4	2	4
2	4	4	3	-1	1	7	4	2	3	3	4	3	1	2	1	3	4	6
3	-2	-1	-2	-3	-3	0	3	4	6	7	4	0	3	3	4	6	6	6
4	4	4	8	8	9	16	18	12	8	6	3	8	4	5	4	17*	16*	21*
5	15	14	11	11	11	12	11	7	4	10	14	18	9	5	9	10	8	16
6	7	9	5	9	9	7	7	4	6	2	0	7	6	2	4	6	7	10
7	6	11	10	6	4	7	3	13	6	7	0	1	1	2	3	4	6	11
8	4	3	3	4	2	4	7	4	7	4	2	4	2	2	1	1	2	4
9	8	9	9	8	11	17	17	15	12	7	1	-3	2	1	3	3	4	4
10	12	12	12	12	16	17	14	12	8	2	1	2	2	2	1	1	1	1
11	9	8	9	11	9	11	11	10	4	1	1	0	1	1	1	0	0	2
12	11	10	11	11	11	15	10	6	6	4	4	3	4	3	3	3	3	5
13	4	5	6	4	10	15	13	7	3	3	...	3	5	3	4	5	–	–
14	7	7	6	17	24	26	14	9	4	4	7	4	4	4	3	+	±	±
15	+	+	±	±	±	2*	13	13	13	6	7	6	4	4	3	1	4	5
16	7	2	7	6	20	7	13	9	5	5	10	5	7	5	3	3	5	7
17	12	9	11	12	18	23	25	9	11	12	8	8	4	9	7	7	5	8
18	10	8	10	13	15	16	15	11	7	5	7	6	4	3	3	4	4	8
19	11	10	10	11	15	25	22	23	10	3	2	3	5	3	2	2	5	10
20	12	11	11	11	20	21	13	9	5	2	3	0	0	0	0	1	2	+
21	9	7	8	10	9	13	11	4	8	5	4	0	2	4	–	–	–	+
22	3	4	5	6	8	15	13	8	5	5	7	3	2	1	1	0	2	2
23	6	7	7	7	11	7	8	6	4	1	1	...	2	2	-1	-1	-1	1
24	5	5	5	6	7	9	10	7	5	3	0	0	1	1	0	0	1	3
25	8	8	8	9	10	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	5	6	5	5	6	8	9
27	17	12	8	10	17	10	-21*	-14*	-2*	2*	-1*	-2*	4	6	4	11	5	12
28	9	5	11	14	13	16	20	17	15	4	2	2	3	4	6	+	±	±
29	4	4	2	8	11	22	9	10	4	3	7	4	2	2	0	4	5	11
30	3	6	5	8	9	9	14	15	6	2	2	5	2	3	4	5	9	9
31	0	4	5	±	±	–	-1*	3	5	4	5	6	3	3	2	2	1	3
平均 Mean	7.2	7.1	7.3	8.4	11.2	13.7	12.7	9.3	6.6	4.5	4.1	3.9	3.3	3.1	2.8	3.5	3.9	6.5

AUGUST 1897.

VERTICAL MAGNETIC INTENSITY.

P. M. 7	8	9	10	11	夜半 M.N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
								h m		h m		
352	356	362	368	364	356	3441	368	10 00 p	311	10 00 a	.0[3] 57	C, A Late at night.
339	340	335	339	340	338	3429	...	...	...	...	...	A Early in morning, C.
332	327	330	330	328	327	3301	341	5 00 a	321	9 00 a	20	C
329	322	328	326	324	329	3243	332	6 00 p	318	11 00 a	14	C
349	353	352	355	355	355	3443	359	4 00 p	325	1 00 a	34	C
384	386	386	386	386	386	3729	389	4 00 p	346	4 00 a	43	C
380	382	383	382	382	382	3818	391	7 00 a	374	noon	17	C
367	365	370	370	370	373	3734	386	7 00 a	363	9 00 a	23	C
361	366	363	364	364	366	3645	371	6 00 a	356	8 00 a	15	C morning, A afternoon.
354	358	359	356	358	359	3562	368	1 00 a	348	9 00 a	20	A morning, C afternoon.
358	361	363	361	363	360	3580	363	5 00 a	349	9 00 a	14	C
358	360	362	362	362	362	3585	362	4 00 a	347	11 00 a	15	C
357	353	357	357	353	361	3560	366	4 00 a	336	9 00 a	30	C
349	349	349	353	355	359	3520	363	6 00 a	340	9 00 a	23	C
365	367	369	371	367	369	3606	371	10 00 p	344	10 00 a	27	C
...	...	...	...	...	...	3722	...	...	...	...	...	C
369	369	373	382	382	382	3719	...	...	...	...	...	C
368	375	381	381	381	383	3760	383	3 00 a	364	4 00 p	19	C
368	375	380	382	382	382	3770	385	6 00 a	364	6 00 p	21	C
378	376	376	378	376	376	3763	392	4 00 a	362	5 00 p	30	C morning, A afternoon.
367	367	372	374	376	372	3690	381	5 00 a	353	9 00 a	28	C
363	366	366	371	371	375	3698	378	2 00 a	358	9 00 a	20	C
365	370	370	370	373	375	3679	380	4 00 a	358	9 00 a	22	C
372	372	372	372	374	372	3680	377	4 00 a	354	noon	23	C
358	361	363	365	363	363	3585	368	5 00 a	335	9 00 a	33	C
350	358	360	363	363	366	3536	366	m.n.	340	9 00 a	26	C
355	357	357	357	355	358	3514	373	1 00 p	315	9 00 a	58	C
342	348	348	346	347	350	3478	360	5 40 a	330	10 37 a	30	C
344	346	353	354	353	352	3442	355	5 00 a	321	9 00 a	34	C
347	347	354	353	354	351	3455	355	3 00 a	323	8 00 a	32	A
348	351	351	350	351	354	3473	354	M.N.	336	9 00 a	18	A
3576	3594	3615	3626	3624	3631	3583	3692		3425		.0[3]266	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
9	9	8	7	7	5	7.9	32	7 45 a	0	2 00 p	32	—
4	2	1	0	-1	-2	2.4	9	6 10 a	-3	4 25 a	12	●°4.35a–8.40a ≺8p-10p
2	1	2	1	0	0	2.0	8	9 30 a	-4	4 25 a	12	≡°5.20a–7.25a
+	19	17	17	18	15	10.1	92	6 25 p	-6	6 55 p	98	>4p-6p ≺4p-M.N
18	16	32	17	13	7	12.4	33	9 00 p	3	8 55 a	30	-≺-2a ≡°●°4.20a–8.50a ≺9p–10p ⅂ζ9.30–9.37p [≺7p–M.N.
19*	37*	11	4	7	5	6.1	758	7 30 p	-2	10 45 a	>60	≺2a–3a ●°5.40–6.45a, 715a–8.40a, 6.55–8.30p
4	3	4	6	—	10	5.6	22	11 25 p	-40	11 00 p	62	●°4a–9.25a, 1105a–3.20p ●°4.15p–●–●[2]11p–●–
7	8	8	10	8	8	4.5	11	10 00 p	0	2 30 p	11	–●–●°–5.30a ●°6.30a– ≺⅂ζζ[2] 10.35p–11p]
8	11	11	11	11	11	8.0	19	7 10 a	-3	noon	22	— 7.20,a 9.55a–11.15a]
4	6	9	8	9	9	7.2	18	6 10 a	-1	11 35 a	19	≡°4.50a–7.50a.
8	+	—	10	10	11	5.8	36	8 35 p	-15	8 55 p	51	≡°3.55a-≡–2≡°–8.30a ≺7.p–8.p ●°8.30p–9.10p
6	6	7	6	7	6	6.7	16	5 25 a	0	10 05 a	16	●°8.05a– 8·25a
—	6	10	11	10	9	6 8	>119	6p–7p	<-77	6p–7p	>196	≡°4.55a–7.55a ⊤°4.03p–5.45p ●°5.55p–7.10p ⌈p-
±	±	—	±	—	--	9.3	>121	...	<-69	...	>190	⊤°3.35p-⅂ζ°4.20p⅂ζ-⅂ζ°6.05p-⅂ζ°-6 40p≺8p●°●°[2]●4.3[
4	5	5	7	7	7	6.3	>121	...	<-77	...	<198	-●-●°-0.30a●°1.30a-●°3.50a-●°-5.35a●°8.40p-9.40p
10	8	10	12	13	17	8.2	26	5 20 a	0	2 25 a	26	●°0.37a, 4.30a, 9.55a
13	12	9	7	9	9	10.7	28	7 00 a	1	10 17 p	27	●°3.20a–4.10a 6.35a–6.50a 7.45a–8.20a
11	11	12	12	11	10	9.0	24	6 35 a	2	2 35 p	22	≡°4.15a-≡[2]-≡–7.20a
15	14	13	13	13	12	10.5	32	6 16 a	0	11 20 a	32	≡5.15a–≡[2]-≡°–7.25a ≺9p–10p
--	6	7	7	8	7	7.1	28	6 05 p	-56	6 30 p	84	≡°4.50a–6.50a ≺9.p–11p
3	3	3	7	4	0	5 7	>109	4 23 p	<-69	3 05 p	>178	●°3.50p–4.10p,9.55p–11.20p ⊤2.40p-⅂ζ3.50p⊤4.05–5.15
3	+	±	3	4	7	4.9	82	8 08 p	-27	9 08 p	109	-≺-3a≡°5.20a–6.50a●°4.10p–4.25p ⌊≺7p-M.N.
1	2	2	3	4	5	3.7	12	6 05 a	-2	4 40 p	14	≡[3]5.4a–6.30a ●°6.35a–6.50a ⌊⊤°7p≺7p–11p.
6	8	8	7	6	8	4.6	13	6 50 a	-2	11 43 a	15	—
...	...	...	...	...	...	8.6	..	...	...	...	...	—
7	13	6	5	12	16	7.9	...	...	...	...	...	≡°5.20a–8.30a ●°7.10p–7.25p,10.15p–10.50p
11	17	21	6	14	21	11.4	32	M.N.	-22	7 00 a	54	●°2.40a–3.20a, 5.30a–9a ●°6.35p- ≺8p–10p
—	1*	—	9	-2	0	8.2	>157	6 00 p	<-126	6 00 p	>283	●°●4.15p–9.55p-⊤⊤°0.42p–5.20p≺8.50p-⅂ζ≺–10p
6	4	7	5	4	4	5.9	33	6 25 a	-5	7 40 p	38	-●°–6.35a●°4.10p–7p,8 45p–11p ≺2a 11p–M.N.
8	5	8	6	6	6	6.5	18	6 30 a	0	0 50 p	18	●°0.30a–1.40a≡°5.15a–9.30a ⅂ζ7.50p–8.25p ≺9p
7	6	6	3	2	2	3.6	...	...	...	...	...	●°1.50a-●-●[2]4.30a-●-●°-9.35a●°7.50p-≺10p-11p
7.8	8.9	9.1	7.6	7.6	7.8	6.9						

明治三十年九月

偏角 4°W+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	29′.6	28′.8	28′.5	28′.5	28′.4	27′.3	26′.3	26′.2	28′.8	31′.3	34′.1	35′.3	34′.9	33′.3	30′.6	29′.4	28′.4	28′.7
2	28.8	28.8	28.2	27.6	27.2	25.9	26.5	26.6	28.1	30.3	32.5	33.1	32.5	31.8	30.3	30.0	29.0	29.1
3	29.0	28.8	28.5	28.4	28.2	26.9	26.5	26.7	28.8	31.3	32.7	33.7	33.3	31.8	30.4	29.4	28.5	28.7
4	29.0	28.8	28.1	28.1	27.9	26.7	26.6	27.0	28.4	30.3	32.2	32.7	31.9	31.6	30.3	30.3	30.3	30.0
5	27.5	27.2	27.3	26.9	26.0	26.6	28.1	29.4	30.0	31.0	33.3	34.0	34.4	33.0	31.8	30.0	29.3	29.6
6	28.8	28.8	29.1	29.4	28.4	27.3	28.1	27.8	28.4	30.3	32.9	33.6	33.0	31.8	30.6	30.0	29.4	30.0
7	29.0	28.8	28.7	28.4	28.1	27.6	27.8	29.6	30 3	31.8	32.4	32.5	32.1	31.3	30.2	29.1	28.8	30.0
8	29.1	29.0	28.5	28.5	28.1	27.3	27.3	28.8	29.6	31.5	33.0	33.3	33.7	31.6	30.3	29.4	28.8	30.0
9	29.6	29.4	28.8	...	...	...	26.3	27.8	29.6	31.5	33.1	33.4	32.5	31.5	30.3	30.0	29.6	30.0
10	29.3	28.8	28.7	28.8	28.4	27.2	26.6	26.6	28.2	30.3	32.5	32.7	32.1	30.4	29.9	29.3	29.1	29.9
11	29.0	28.5	28.1	28.5	27.8	26.7	26.6	28.5	29.6	31.5	33.4	34.7	35.9	32.9	30.3	39.3	29.0	...
12	29.0	28.2	26 9	28.5	29.7	27.0	27.6	...	31.9	34.7	36.5	36.1	34.7	33.1	31.9	31.0	...	...
13	28.8	28.5	28.8	...	...	...	...	...	29.4	31.6	33.1	33.1	32.4	30.7	30.3	28.4	28.1	29.9
14	28.6	28.8	28.7	28.7	28.2	26.6	26.6	26.2	28.7	31.3	33.6	33.6	33.1	31.5	30.0	28.5	28.1	39.7
15	28.7	29.6	29.1	29 9	29.0	27.8	27.8	27.9	29.9	31.8	33.0	33.1	33.0	31.8	30.3	28.7	28.8	30.0
16	...	...	...	...	...	28.1	29.0	29.7	31.0	34.3	35.6	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	29.4	31.0	31.9	32.5	32.5	31.8	30.3	29.0	29.0	29.6
18	29.1	28.8	28.7	28.2	28.1	26.7	27.8	27.8	29.6	31.0	32.7	33.0	32.4	31.6	30.9	29.7	29.3	29.7
19	28.8	28.8	29.0	28.4	27.9	27.5	27.2	27.3	28.1	30.0	31.0	31.2	31.2	30.7	30.0	29.1	29.6	29.7
20	29.3	28.2	28.1	28.2	28.2	27.8	27.3	26.6	27.3	29.1	30.3	30.6	31.8	32.4	31.3	30.6	30.6	30.7
21	29.4	29.4	29.3	28.8	28.7	28.2	29.0	29.6	29.6	30.9	31.2	31.5	31.8	31.6	30.6	30.3	30.0	30.3
22	29.0	28.4	28.1	27.5	27.2	38.1	27.6	27.6	28.1	30.3	31.2	31.5	31.8	30.6	30.2	29.9	30.0	29.7
23	28.8	29.1	29.3	29.1	29.0	28.8	27.9	27.3	29.3	30.4	30.4	30.4	31.2	31.3	31.3	30.9	30.3	30.3
24	28.4	28.8	29.6	28.8	29.3	28.8	28.1	28.4	28.8	30.3	31.0	32.2	33.0	33.3	32.5	30.9	30.3	31.0
25	29.6	29.6	29.4	29.3	29.4	28.8	29.1	30.3	31.3	32.2	32.5	33.7	32.9	31.5	30.2	29.0	29.0	29.4
26	28 8	...	28.5	28.4	28.4	28.2	27.9	28.1	29.3	30.4	31.8	32.2	31.8	30.6	29.0	28.7	29.9	30.2
27	29.3	29.3	28.8	29.0	28.8	28.5	28.5	28.4	29.3	30.9	32.1	32.5	32.4	31.5	30.3	29.7	29.6	30.6
28	29.6	29.6	29.4	28.8	28.7	28.5	27.6	27.8	28.5	30.4	31.0	31.8	31.5	30.6	28.4	27.9	29.0	30.2
29	29.0	28.5	28.2	28.1	28.1	27.9	27.6	27.3	28.1	30.3	32.5	34.0	33.7	32.5	30.6	29.1	29.3	30.0
30	29.3	29.3	29.1	28.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
平均 Mean	29.04	28.84	28.62	28.52	28.29	27.57	27.53	27.90	29.22	31.10	32.53	32.93	32.76	31.72	30.47	29.56	29.30	29.88

水平磁力 0.29.....+

1	817	819	820	823	820	815	807	796	790	794	807	820	833	841	840	833	826	823
2	828	823	823	818	815	813	802	794	791	794	794	803	819	820	821	822	820	818
3	821	821	821	823	823	821	810	803	803	810	816	823	823	835	836	836	834	826
4	811	821	815	812	809	809	799	795	789	809	819	819	832	839	838	822	806	813
5	826	822	822	833	815	804	797	776	785	789	784	781	794	812	815	818	813	814
6	802	802	802	803	799	798	786	779	777	782	790	804	809	810	811	802	802	803
7	804	806	810	806	806	804	797	786	784	791	802	812	820	829	819	815	811	808
8	812	812	809	812	809	804	792	785	784	792	794	806	810	806	814	820	821	815
9	815	813	813	810	...	...	802	793	783	791	798	813	825	837	829	813	807	803
10	815	815	816	819	819	815	807	794	788	794	804	813	822	828	825	821	819	919
11	826	826	828	821	830	832	818	801	788	797	804	802	789	812	819	818	811	795
12	796	813	805	796	807	807	799	777	779	783	790	785	790	790	785	784	790	790
13	803	803	800	812	808	793	786	776	773	778	779	800	814	820	819	814	809	797
14	805	806	807	807	808	804	792	801	793	798	805	823	824	832	838	832	820	813
15	777	790	795	798	798	798	789	777	767	767	784	802	814	817	813	809	800	799
16	805	804	801	801	805	804	794	785	778	779	795	809	816	821	815	808	805	805
17	807	805	805	805	807	804	804	796	790	796	800	809	811	811	820	821	812	804
18	810	808	807	810	806	805	800	794	794	800	801	807	819	830	831	824	818	814
19	817	815	810	815	815	810	809	803	798	797	796	808	820	822	828	828	824	818
20	819	819	817	811	813	820	820	813	798	798	800	817	818	818	815	810	803	803
21	813	813	815	816	818	821	822	819	810	811	809	817	828	837	838	830	823	810
22	813	817	827	829	822	820	815	806	790	778	791	809	824	830	829	816	803	800
23	814	813	814	818	821	821	821	820	802	797	796	801	806	806	810	801	788	787
24	804	802	805	803	808	808	809	805	792	790	...	795	803	797	801	801	794	787
25	807	802	798	797	798	795	789	783	786	787	792	803	814	825	824	821	812	809
26	811	811	809	810	811	807	807	807	807	809	808	815	819	822	815	809	805	805
27	814	816	816	816	818	820	824	819	812	824	837	846	851	851	844	835	821	811
28	822	814	823	816	810	818	816	798	793	802	816	824	830	836	832	824	812	806
29	815	824	824	824	823	823	824	816	811	814	823	829	832	831	829	823	816	816
30	819	821	822	823	...	...	...	...	...	...	...	...	...	...	...	...	...	...
平均 Mean	8116	8125	8126	8129	8122	8105	8047	7964	7909	7949	8012	8102	8176	8230	8225	8176	8112	8070

SEPTEMBER, 1897.

MAGNETIC DECLINATION.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks
29.6	29.4	29.7	29.4	29.6	29.1	29.80	35.3	Noon	26.0	7 34a	9.3	C
29.9	29.7	29.7	29.4	29.6	29.7	29.35	33.1	Noon	25.9	6 00a	7.2	C
28.8	29.4	29.1	28.7	29.0	29.0	29.39	33.7	Noon	26.0	7 17a	7.7	C
30.3	30.3	30.0	29.1	28.4	28.1	29.43	33.1	11 24a	26.6	7 00a	6.5	C
30.0	30.3	29.6	30.0	30.0	29.3	29.77	34.6	0 32p	25.9	6 18a	8.7	A
30.0	29 6	30.3	30.2	29.9	29.4	29.88	33.9	11 44a	26.7	7 18a	7.2	A
30.2	29.9	29.9	30.0	29.9	29.6	29.83	32.5	Noon	27.5	6 50a	5.0	C
30.3	30.3	30.3	30.3	30.0	29.6	29.94	33.9	0 38p	27.0	7 18a	6.9	A morning, C afternoon
30.0	29.1	29.6	29.9	29.7	29.6	30.06	...	...	...	...	...	C
29.7	29.9	29.9	29.9	29.6	28 8	29.44	33 0	11 20a	26.5	7 23a	6.5	C
...	...	...	...	...	...	30.02	36.1	1 10p	26.6	7 00a	9.5	A morning, C afternoon
...	...	...	...	...	29.3	31.01	36.5	11 00a	26.9	3 00a	9.6	S° morning, C afternoon
30.0	29.9	30 3	30.3	30.0	30.0	30.19	...	...	...	...	...	C
30.3	28.8	30.9	30.3	29.9	29.3	29.62	34.0	0 10p	23.9	7 04a	10.1	C oa–7a, S° 7a–M.N.
...	...	...	...	...	...	30.01	33.6	11 22a	27.6	6 40a	6.0	A
...	...	...	...	...	...	31.28	...	...	...	...	...	
29.6	29.4	29.6	29.9	29.6	29.4	30.28	...	...	...	...	...	A
29.7	29.7	29.7	29.6	29.7	29.1	29.69	33.1	11 30a	26.6	6 24a	6.5	A morning, C afternoon
29.6	29.6	29.7	29.7	29.6	29.3	29.29	31.3	0 08p	27.2	7 00a	4.1	A morning, C afternoon
30.4	30.3	30.3	30.2	30.0	29.7	29.55	32.4	2 00p	26.6	8 00a	5.8	C
30.3	30.7	30.9	30.7	30.3	29.4	30.10	32.1	0 40p	28.1	6 33a	4.0	C oa–6a, A 6a–8p, C 8p–M.N.
29.6	29.6	29.6	29.7	29.7	29.6	29.36	31.9	0 30p	27.0	8 15a	4.9	A
29.4	30.3	29.9	29.9	29.4	28.7	29.70	31.8	1 35p	27.3	8 00a	4.5	A
29.4	30.3	30.3	30.3	30.0	29.6	30.14	33.3	2 00p	27.9	8 30o	5.4	A
29.3	29.4	29.7	29.6	29.6	28.7	30.15	33.9	0 08p	28.7	4 32p	5.2	C morning, A afternoon
30.3	30.2	29.9	29.9	29.9	29.3	29.64	32.2	Noon	27.8	6 50a	4.4	C
30.6	30.3	30.6	30.3	30.2	29.6	30.05	32.9	0 16p	28.2	7 15a	4.7	C
29.7	29.4	29.6	29.7	29.7	29.3	29.45	31.8	0 18p	27.6	7 00a	4.1	C
29.6	29.7	29.9	29.7	29.9	29.6	29.72	34.0	Noon	27.2	7 46a	6.8	C
...	...	...	...	...	...	29.10	...	...	...	...	...	
29.86	29.82	29 96	29 87	29.73	29.31	29.80	33.36		26.94		6.42	

HORIZONTAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum	h m	最小 Minimum	h m	較差 Range	記事 Remarks
825	822	823	825	824	825	8195	845	2 20p	787	8 40a	0.58	C
819	818	816	820	819	819	8137	828	1 00a	789	8 40a	39	C
818	816	823	816	815	809	8201	847	2 32p	799	8 40a	48	C morning, A afternoon
811	809	808	811	832	828	8148	845	2 40p	785	8 40a	60	C morning, A afternoon
782	790	799	799	802	799	8025	838	3 48a	776	8 00a	62	A
802	806	808	806	810	811	8002	817	1 45p	776	8 40a	41	A
806	810	811	808	809	811	8069	829	2 00p	781	8 40a	48	A
816	817	818	818	814	817	8080	821	5 00p	782	8 30a	39	C
802	811	807	811	811	813	8091	838	1 45p	781	8 48a	57	A
822	825	826	824	825	828	8160	828	2 00p	787	8 40a	41	C
794	812	811	808	802	791	8098	836	5 45a	785	8 43a	51	A morning, S° afternoon
789	791	792	796	798	799	7929	818	2 35a	775	7 55a	43	S° oa–9a, A 9a–M.N.
798	798	799	800	801	804	7993	820	2 00p	773	8 30a	47	A
798	772	765	766	765	773	8020	840	3 25p	762	11 05p	78	C oa–7a, S° 7a–M.N.
798	803	804	803	802	806	7963	818	1 25p	767	9 00a	51	A
803	798	796	800	803	803	8014	822	2 03p	776	8 48a	46	A
798	800	803	805	805	806	8052	823	3 30p	790	8 40a	33	A
813	815	815	813	813	816	8110	831	2 20p	790	8 50a	41	A
820	822	821	823	822	824	8152	830	3 18p	795	10 18a	35	A
809	809	812	811	813	815	8117	824	1 16p	798	9 25a	26	A
816	809	802	797	806	813	8164	838	2 55p	796	9 25p	43	C oa–8a, A 8a–M.N.
806	811	811	808	808	808	8113	835	2 25p	776	9 41a	59	A
792	784	790	809	797	800	8045	823	6 48a	780	6 35p	43	A
796	783	784	787	782	786	7966	816	5 14a	781	10 42p	35	A
810	815	809	824	810	814	8052	831	2 24p	780	8 40a	51	C morning, A afternoon
805	808	813	814	813	815	8106	822	2 28p	802	8 46a	20	C
809	801	797	804	808	816	8212	853	1 30p	797	8 32p	56	C
816	821	816	812	812	817	8162	836	2 05p	793	9 00a	43	A
814	814	816	817	821	823	8209	834	1 28p	810	8 22a	24	C
...	...	...	...	...	...	8212	...	...	...	...	...	C
8064	8060	8067	8081	8033	8100	8091	8305		7851		0.454	

明治三十年九月

鉛直磁力　0.34.....+

日 Day	午前 A.M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	354	355	354	355	354	353	344	330	315	323	339	344	350	350	349	340	337	337
2	350	350	350	346	346	348	342	337	337	337	340	346	355	353	350	350	347	347
3	351	351	351	351	352	351	342	334	326	326	328	337	348	350	341	337	337	337
4	344	350	345	342	343	342	339	334	330	335	335	329	329	329	335	329	328	332
5	344	343	341	344	333	332	329	322	325	326	323	325	327	347	346	341	336	333
6	344	345	344	345	340	340	338	332	326	325	326	338	346	346	339	332	339	337
7	339	339	341	339	339	337	336	335	330	335	344	342	342	342	339	336	336	340
8	341	341	340	342	341	340	335	331	330	334	341	344	344	342	344	344	343	340
9	342	342	344	..	...	...	336	330	332	335	341	347	352	348	342	333	332	332
10	342	344	344	345	344	342	335	331	326	325	328	334	344	345	340	337	337	334
11	335	338	338	334	340	338	329	323	325	328	338	336	335	345	345	340	336	328
12	334	340	335	337	343	339	333	329	323	328	335	338	339	339	337	334	335	334
13	342	342	341	344	342	339	334	326	327	326	332	337	340	344	341	339	332	329
14	334	334	337	338	338	334	331	325	319	319	327	337	338	337	337	331	338	325
15	340	342	343	343	342	339	335	329	325	328	340	344	348	347	344	339	333	334
16	337	336	336	337	337	337	334	328	325	325	337	340	342	341	337	336	335	334
17	341	341	242	342	341	341	340	338	337	338	340	340	344	344	345	344	340	337
18	345	342	341	342	342	341	337	335	334	335	338	341	347	350	347	341	339	334
19	342	342	341	341	340	340	338	336	336	337	337	342	346	348	348	344	342	337
20	339	339	339	339	339	340	339	336	331	330	331	334	347	336	339	337	336	335
21	341	341	343	343	343	243	343	341	337	336	335	339	341	343	344	343	339	336
22	345	345	346	345	345	343	342	339	331	329	337	345	350	350	345	341	337	334
23	344	344	344	344	344	340	336	336	331	329	329	331	332	333	336	337	335	336
24	345	345	345	345	348	351	351	351	345	340	337	345	351	345	345	347	347	341
25	359	352	353	355	353	352	348	344	344	345	348	352	353	353	347	344	344	338
26	341	344	345	345	344	244	342	342	341	344	319	350	350	352	348	346	344	344
27	347	349	349	349	350	350	351	351	346	346	351	351	351	351	351	346	346	342
28	354	354	356	354	354	354	353	347	339	341	351	253	351	354	354	351	346	346
29	351	353	354	353	353	354	351	346	342	339	342	342	347	351	351	350	346	346
30	355	352	353	353	...	...	...	...	...	...	...	...	...	...	...	...	...	...
平均 Mean	3441	3445	3445	3445	3439	3430	3394	3351	3216	3326	3372	3408	3441	3453	3437	3403	3383	3362

空中電氣

1	5	14	10	11	22	31	35	15	8	7	7	6	6	3	3	1	2	6
2	12	10	10	10	12	15	8	6	4	5	3	4	2	-2*	62*	8	5	7
3	7	3	1	1	8	11	10	12	8	4	2	-1	3	3	0	3	6	7
4	5	7	5	7	10	14	13	7	7	6	3	3	1	-1	0	3	3	10
5	13	1	...	...	...	...	...	28	2	14	6	...	...	...	...	...	...	...
6	19	12	5	9	15	23	20	-75*	-18*	+14*	-5*	0*	-31*	1*	9*	-20*	-49*	-16*
7	1	3	7	8	4	-3*	2	9	8	4	3	4	3	2	4	5	5	5
8	15*	11*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	0*	-1*	-2*	3*	9	5	7	5	4	3	0	0	-3	2
10	18	15	18	29	...	34	37	18	17	14	8	22	21	11	2	4	6	11
11	72	50	58	56	61	56	58	44	30	12	4	20	8	9	14	20	20	36
12	52	50	42	42	46	46	52	37	17	4	0	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	9	6	0	6	10	21	33
14	...	...	...	...	4	24	20	25	18	-1	8	...	...	...	0	1	3	2
15	6	1	...	...	...	...	...	15	5	2	2	2	2	0	1	0	0	0
16	...	...	...	...	...	2	8	5	-1	1	0	3	2	-2	3	4	5	4
17	4	2	1	2	4	3	6	4	4	1	2	2	2	2	1	1	2	3
18	1	2	-3	1	5	8	10	7	2	4	8	8	4	3	4	4	4	10
19	18	24	21	22	18	26	30	16	11	8	8	2	4	4	4	6	7	12
20	28	32	28	28	31	34	36	26	10	5	10	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	5	8	12
23	14	13	12	13	15	17	18	13	11	4	3	-2	0	4	5	6	6	8
24	3	2	2	2	0	1	2	4	-4*	...	...	-6*	2	2	0	7	-3	-1
25	4	5	5	5	6	-3	-2	-2	0	0	...	0	0	0	1	1	2	3
26	6	5	6	6	7	10	11	8	6	2	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	2	3	3
28	-2	1	2	1	2	4	4	4	3	3	2	12	3	2	2	4	5	7
29	8	7	7	7	7	7	7	-2	-2	0	0	-6	-3	1	10	10	10	4
30	—	—	1	4	7	17	17	16	7	3	2	2	1	-1	0	1	3	3
31											...							
平均 Mean	14.0	12.5	11.9	13.2	14.2	18.1	18.7	13.7	8.0	4.7	4.2	5.2	3.5	2.3	3.0	4.6	5.2	8.1

SEPTEMBER, 1897.

P. M. 7	8	9	10	11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks

VERTICAL MAGNETIC INTENSITY.

								h m		h m		
344	344	345	346	346	347	3449	355	4 00 a	313	8 45 a	.03 42	C
347	348	350	350	350	350	3469	356	1 35 p	337	8 00 a	19	C
336	337	341	337	338	340	3408	352	5 00 a	326	9 40 a	26	A
332	335	335	329	346	345	3363	351	1 42 a	324	5 12 p	27	C morning, A afternoon
329	336	341	343	341	342	3354	350	2 22 p	321	8 16 a	29	A
338	340	340	340	339	344	3385	348	1 42 p	325	10 00 a	23	A
332	335	335	333	333	339	3370	347	11 20 a	330	9 00 a	17	C
341	340	341	340	340	343	3401	346	0 25 p	329	8 50 a	17	C
332	334	332	334	335	339	3378	354	1 38 p	329	6 18 p	25	A
335	335	334	334	333	340	3370	345	2 00 p	325	10 00 a	20	C
329	336	334	334	331	333	3345	346	2 30 p	322	8 30 a	24	A morning, S° afternoon
335	335	335	337	335	340	3354	347	5 10 a	323	9 00 a	24	S° morning, C afternoon
327	332	332	332	331	335	3352	344	2 00 p	325	9 36 a	19	C
324	320	324	329	331	337	3306	338	1 00 p	318	9 30 a	20	C Early in morning, A
334	336	336	335	335	338	3379	352	1 04 p	325	9 00 a	27	C, A 9a–4p
335	335	335	336	336	339	3354	342	1 00 p	323	9 26 a	19	A
337	337	338	337	338	344	3402	345	3 00 p	337	9 00 a	8	A
334	335	338	337	337	342	3397	350	2 00 p	333	9 00 a	17	C
337	340	340	340	341	342	3407	348	2 00 p	336	9 00 a	12	C
337	339	339	339	339	343	3371	343	M. N.	328	9 40 a	15	C
337	337	335	337	343	345	3462	345	M. N.	335	11 00 a	10	C
338	339	338	337	337	342	3408	351	1 40 p	329	10 00 a	22	A
336	337	340	343	339	341	3374	345	4 12 a	328	9 46 a	17	A
347	345	345	345	345	351	3459	353	5 16 a	337	11 00 a	16	A
338	340	338	345	338	344	3470	359	1 00 a	337	9 32 a	22	C morning, A afternoon
345	345	349	346	348	349	3457	352	2 00 p	341	9 00 a	11	C
345	342	345	351	351	354	3485	354	M. N.	341	5 16 p	13	C
350	350	347	346	347	351	3501	357	2 28 a	338	9 07 a	19	C
347	349	353	351	351	354	3490	354	3 00 a	339	1 000 a	15	C
...	...	...	...	...	...	3532	...	...	...	...	...	A
3372	3384	3391	3394	3398	3432	3464	3493		3294		.03 198	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
12	14	12	13	13	12	11.2	43	6 45 a	1	4 40 p	42	-●°-3.15a≡°4.55a-8a ◁7p-9p.
8	7	7	7	6	9	7.5	18	6 05 a	-72	3 00 p	90	●°7.30a-9.20a2.50p-5.15p⊤1.50p-2.20p,3.30p
8	7	7	5	4	6	5.2	16	7 30 a	-2	2 30 p	18	≡°4.30a-7.40a
11	11	9	8	8	8	6.6	17	6 19 a	-17	1 22 p	34	⁄3p-4p ◁6p-10p [4.15a-6a
12	11	6	14	15	14	11.6	...	...	...	...	...	●°1.25a - ● 1.40a-0.20p ⊤1a-2a ◁⊤°3.40a ⊤[
...	4*	-86*	-59*	-14*	2*	14.7	31	6 47 a	-120	8 26 p	151	●2.30a-●27.30p-07.35p-
6	9	10	8	9	11	5.7	16	11 40 a	-40	5 07 a	56	-●°-●-●°-9.30a [[2-
...	...	...	...	...	...	...	...	...	...	...	...	●°-●-●210.30a-M.N.[°2.12a-⊤0.10p◁6.45p-[
9	13	9	10	10	13	6.0	...	...	...	...	...	-●2-●-●2-●-7.35a⁄4a-7a
30	36	36	48	37	66	23.4	...	...	...	...	...	—
52	52	53	48	52	48	38.9	88	1 08 a	3	10 55 a	85	≡°0.30a-1.30a. ≡°4.05a-8a
...	...	...	...	...	...	35.3	...	...	...	...	...	●11.04a-11.30a
37	36	21	33	28	9	19.2	...	...	...	...	...	●8.50a-9.35a 0.40p-2.40p,●°7.57p-●2-●-°
2	0	2	4	7	7	8.0	190	2 00 a	-197	1 55 a	387	-●°-
0	0	0	1	...	...	2.2	109	6 05 a	-128	6 24 a	237	-●°-●-●°-11.40a●8.15p-, [3.30a-4.40a
9	8	6	6	7	6	4.0	49	0 13 a	-115	0 04 a	164	-●-●20.20a-●1.35a-8a ●°2.05-3.10p
4	6	4	4	6	2	3.0	8	7 40 p	-2	10 00 a	10	●°4.40a-6.20a
17	15	22	23	26	25	8.7	32	7 28 p	-7	2 48 a	39	●1.25a-3.40a
20	27	27	34	34	28	17.1	38	10 07 p	1	2 46 p	37	≡°5.50a-7a
...	...	...	...	...	...	24.4	...	...	...	...	...	●°3.40a-5.10p ●°5.30p-●°5.30p-●10.45p-
...	...	...	...	...	...	...	...	...	...	...	...	-●°-●21.15p-●1.25p-●°-2.35p
12	15	16	13	13	14	11.2	...	...	...	...	...	—
9	10	8	9	6	4	8.6	18	7 10 a	-6	0 28 p	24	≡°5.15a-7.15a
0	-1	0	2	5	5	1.7	7	3 22 p	-40	10 30 a	47	●°0.45a-2.35a ●°4.40a-●●°-8.30p
6	10	8	8	9	7	3.2	11	9 24 p	-4	6 06 a	15	≡°4.20a-5a ●°5.30a-9.30a ●°11.50a-1.25p
...	...	...	...	...	...	6.8	...	...	...	...	...	●°4.50p-●-●°-●-
3	4	4	1	4	4	2.9	...	...	...	...	...	-●-●°-●24.45a-●°-3.30p ●°8.55p-
8	10	10	11	11	10	5.0	12	1 22 a	-4	1 00 a	16	-●°-●-●°-9.40a
12	10	20	18	...	...	6.0	129	11 30 p	-132	11 42 p	261	●°4.20a-3.20p ●°-●-●210.40p-●10.57p-
5	5	6	4	3	4	5.0	...	...	...	...	...	-●°-●20.58a-●-3.20a ●°Noon-3.25p ⁄4a
12.2	13.1	12.6	13.8	14.2	14.2	10.5						

明治三十年十月

偏角 4°W+

日 Day.	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon.	午後 P. M. 1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	...	...	35.6	36.0	35.6	34.1	33.2	32.7	33.0
2	30.4	30.4	30.4	30.7	31.9	32.2	30.9	31.2	30.9	...	...	34.3	34.7	34.4	35.6	32.8	33.2	32.1
3	29.4	29.7	29.7	29.9	31.9	31.8	31.3	31.2	30.6	32.1	33.4	33.4	34.1	33.5	33.5	32.1	31.8	29.4
4	30.4	30.4	30.6	30.3	31.2	30.7	29.9	29.0	28.8	29.4	30.6	33.4	34.6	34.4	33.4	32.8	32.1	31.5
5	30.9	31.1	30.8	30.8	31.8	31.5	30.8	31.2	30.8	32.1	34.3	35.0	35.2	33.6	32.1	31.2	31.2	31.3
6	31.1	31.1	30.9	30.9	31.1	31.1	30.9	30.6	30.8	31.3	33.0	34.9	33.7	32.7	31.9	30.9	30.9	31.2
7	30.8	31.1	30.6	30.6	30.6	30.9	30.6	30.5	30.3	31.3	32.8	33.8	33.7	32.8	31.9	31.2	30.9	31.5
8	31.2	30.9	30.9	30.9	30.8	30.9	30.6	29.7	29.1	30.5	32.2	33.7	34.1	33.6	32.4	31.5	31.5	31.9
9	30.9	30.9	30.8	30.9	30.8	30.9	30.5	29.4	29.3	30.8	32.8	34.0	34.1	33.6	31.5	30.6	30.9	31.3
10	30.8	30.8	30.6	30.5	30.2	30.2	29.4	29.4	30.2	31.9	33.4	33.6	33.0	32.1	31.2	30.9	30.9	32.1
11	31.3	30.3	30.3	30.0	30.0	30.8	30.6	31.2	32.5	33.6	35.3	35.2	34.6	33.1	31.8	31.5	31.5	31.5
12	30.6	30.6	30.8	30.8	30.9	30.9	30.6	30.6	30.6	31.1	32.2	32.8	32.7	32.2	31.9	31.8	31.5	31.1
13	30.8	30.0	30.3	32.7	31.5	30.8	31.1	30.2	30.6	31.6	32.2	32.8	32.7	32.1	31.5	31.5	31.1	31.2
14	30.6	30.6	30.6	30.5	30.2	30.6	29.6	29.9	30.8	32.1	32.4	32.5	32.1	32.1	31.9	31.9	31.1	30.9
15	30.0	29.6	29.7	29.6	29.6	30.3	30.5	30.6	30.6	30.8	31.1	32.1	31.8	31.5	30.8	30.3	29.7	30.5
16	30.2	29.9	29.6	29.6	29.9	30.6	30.8	30.8	30.8	32.2	32.4	33.1	32.2	31.8	31.5	30.9	30.8	30.9
17	30.6	30.5	30.8	29.7	29.4	30.5	30.0	29.3	29.3	30.8	32.4	32.5	32.4	31.6	30.9	32.1	30.6	30.8
18	29.3	30.5	29.4	30.3	29.7	29.9	29.9	30.8	30.8	31.3	32.2	...	33.4	32.2	31.1	30.8	30.8	30.3
19	30.6	30.2	30.6	30.9	30.3	30.9	32.1	30.9	30.3	30.9	32.1	32.8	33.0	31.5	30.6	30.6	30.8	30.8
20	30.8	30.8	30.9	30.8	30.8	30.6	29.3	29.1	29.1	30.0	32.2	32.7	33.4	32.4	31.1	30.8	30.9	31.1
21	30.8	30.8	30.8	30.6	30.8	30.6	29.4	29.3	29.4	30.8	32.4	32.7	32.5	32.2	30.9	30.8	30.8	30.8
22	30.6	30.6	30.6	30.6	30.5	30.5	29.9	29.0	29.3	30.6	31.8	32.4	31.6	30.8	30.0	29.6	30.2	30.5
23	30.0	30.0	...	...	...	...	30.0	29.4	30.0	30.8	31.8	31.9	31.3	30.6	29.3	29.3	30.8	32.1
24	30.8	30.6	30.6	30.5	30.5	30.6	30.0	28.1	29.3	30.3	31.8	32.5	32.1	30.6	29.6	30.5	30.5	30.8
25	30.5	30.9	30.0	29.7	30.0	30.6	30.6	30.5	30.8	31.5	31.6	32.2	32.1	31.5	30.9	30.6	30.3	30.8
26	30.6	30.6	30.6	30.0	30.0	30.0	29.6	29.3	29.4	30.6	30.8	31.1	31.1	30.9	31.1	31.2	31.5	31.5
27	30.6	30.8	30.6	30.6	31.1	30.8	29.6	28.1	28.6	29.4	31.6	32.1	32.2	31.8	31.1	30.8	30.8	30.9
28	30.0	29.1	29.3	28.9	29.3	29.3	29.3	29.1	30.9	31.6	33.3	33.7	33.8	31.6	30.8	30.0	30.8	30.8
29	30.9	30.8	30.9	30.0	30.9	31.2	29.7	29.1	30.5	30.9	32.1	32.4	32.2	31.3	30.9	31.1	31.8	30.9
30	31.8	31.2	31.2	31.5	32.1	31.1	29.3	29.4	30.0	30.6	32.8	32.7	32.7	32.5	32.5	30.9	30.9	30.6
31	30.9	31.1	30.6	30.8	30.8	31.8	30.9	30.0	29.4	30.6	32.1	32.7	32.5	32.4	32.7	30.8	30.6	30.8
平均 Mean.	30.57	30.53	30.47	30.47	30.64	30.78	30.29	29.90	30.13	31.09	32.38	33.15	33.08	32.35	31.63	31.13	31.09	31.12

水平磁力 0.29.....+

	1	2	3	4	5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	821	817	817	817	816	820	817	816	807	799	816	832	837	839	833	826	824	813
11	812	807	811	825	801	804	795	776	774	778	780	795	807	806	805	802	794	803
12	812	806	808	801	806	806	806	800	801	806	810	822	827	827	825	820	820	820
13	829	838	826	830	830	831	827	822	820	822	825	828	831	834	835	834	833	833
14	834	835	835	835	836	838	841	836	833	827	830	832	835	843	842	844	835	833
15	830	831	832	831	832	836	835	835	836	832	843	845	851	854	853	855	853	855
16	836	837	837	841	841	840	836	827	820	817	825	831	845	844	843	840	835	834
17	827	832	834	837	838	836	828	821	816	825	837	855	864	859	841	829	837	837
18	838	827	825	825	827	825	822	807	816	817	827	...	822	817	819	805	796	779
19	824	822	823	823	822	818	805	798	797	796	807	814	804	822	827	829	823	825
20	816	814	820	822	807	814	818	811	803	804	812	812	812	815	815	818	816	819
21	819	821	817	818	814	813	812	806	811	818	819	819	834	836	839	831	829	828
22	830	831	832	831	831	833	838	836	832	833	838	841	850	859	857	847	847	843
23	839	833	...	...	...	...	814	809	804	807	813	825	837	844	856	850	833	812
24	812	817	818	817	820	821	816	826	815	827	831	832	840	846	843	837	835	831
25	837	834	837	836	834	837	836	838	839	840	842	852	856	857	856	854	850	844
26	829	833	836	833	833	830	830	831	830	830	831	839	846	848	845	841	828	831
27	830	831	827	823	818	821	819	826	821	822	828	837	846	848	848	846	842	841
28	849	840	835	840	828	826	839	830	825	831	834	833	836	846	845	839	833	836
29	840	841	850	861	822	815	813	803	799	807	810	819	833	832	820	826	820	828
30	839	835	839	841	836	839	841	823	818	815	811	828	833	834	835	841	843	846
31	822	824	817	807	802	804	809	808	811	805	805	803	814	816	813	812	811	811
平均 Mean.	8284	8275	8274	8283	8235	8241	8226	8175	8149	8163	8215	8283	8315	8375	8361	8330	8290	8274

OCTOBER 1897.

MAGNETIC DECLINATION.

P. M. 7	8	9	10	11	夜半 M.N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks.
							′	h m	′	h m	′	
31.8	32.1	31.8	31.8	31.6	30.4	33.05	...	...	...	...	...	A
31.9	31.9	31.9	32.2	30.9	30.3	32.05	35.6	3 00 p	30.3	M.N.	5.3	A
31.8	29.9	30.9	31.2	31.2	30.4	31.42	34.6	1 15 p	29.0	2 45 a	5.6	A
31.5	31.6	31.6	31.8	31.8	31.5	31.39	34.7	1 10 p	28.8	9 00 a	5.9	C
31.3	31.6	31.8	31.5	31.5	31.1	31.81	35.2	1 00 p	30.5	7 20 a	4.7	C
31.2	31.2	31.5	30.8	30.9	30.9	31.48	34.9	Noon	30.6	8 00 a	4.3	C
31.9	32.1	31.9	31.5	31.5	31.2	31.50	33.8	Noon	30.3	9 00 a	3.5	C
31.8	31.5	30.8	31.1	31.1	30.9	31.40	34.4	0 50 p	29.1	9 00 a	5.3	C
31.3	31.1	31.1	30.9	30.9	30.8	31.25	34.1	1 00 p	29.3	9 00 a	4.8	C
32.2	31.8	31.5	31.3	30.8	30.8	31.23	33.6	Noon	28.0	8 20 a	5.6	C
31.5	31.5	31.6	31.6	31.5	31.1	31.83	35.3	11 00 a	29.6	4 20 a	5.7	A morning, C afternoon
31.1	31.3	31.2	30.6	30.8	30.8	31.23	32.8	Noon	30.5	7 15 a	2.3	C
31.2	31.5	31.1	31.3	31.1	30.9	31.32	32.8	Noon	29.6	2 15 a	3.2	A Early in morning, C
31.1	31.2	31.1	30.8	30.6	30.5	31.07	32.5	Noon	29.6	7 00 a	2.9	C
31.1	32.1	31.8	30.8	30.8	30.6	30.68	32.5	7 55 p	29.6	5 00 a	2.9	C morning, A afternoon
30.9	31.1	31.2	30.6	30.8	30.6	30.97	33.1	Noon	29.6	3 00 a	3.5	C
30.9	31.1	31.1	30.8	30.3	30.0	30.77	32.5	Noon	28.9	5 00 a	3.6	A
31.3	30.6	30.8	38.1	30.3	30.6	30.63	33.7	0 45 p	28.1	10 00 p	5.6	A morning, S° afternoon
30.6	29.1	31.5	30.9	30.6	30.6	30.97	33.3	0 50 p	28.9	8 15 p	4.4	C
30.9	30.9	31.1	30.9	30.8	30.9	30.93	33.4	1 00 p	29.1	8 00 a	4.3	A
30.8	30.6	30.8	30.8	30.9	30.8	30.88	32.8	11 50 a	29.3	8 00 a	3.5	C
30.6	30.9	30.8	30.8	30.8	30.9	30.95	32.4	Noon	29.0	8 00 a	3.4	C
32.4	32.2	31.6	30.8	30.6	30.6	30.77	32.5	7 20 p	29.3	4 00 p	3.2	C
30.8	30.8	30.9	30.8	30.9	30.6	30.60	32.5	Noon	27.8	7 37 a	4.7	A morning, C afternoon
30.8	31.2	31.2	30.6	30.6	30.6	30.42	32.4	11 50 a	29.3	2 32 a	3.1	C
31.3	31.5	31.2	31.2	30.8	30.8	30.70	31.8	0 30 p	29.3	8 00 a	2.5	C
30.9	31.1	30.9	29.6	30.6	30.5	30.63	32.2	1 00 p	28.1	8 00 a	4.1	C, A late at night
31.1	30.9	32.1	30.6	31.1	31.3	30.78	34.4	11 45 a	28.0	7 55 a	6.4	A
30.0	30.0	30.6	31.1	31.2	31.5	30.92	32.4	Noon	29.1	8 00 a	3.3	A
30.8	31.3	30.8	31.5	31.3	31.1	31.27	33.6	0 50 p	29.0	7 30 a	4.6	A
30.9	30.9	30.9	30.8	30.9	30.8	31.11	32.7	Noon	29.4	9 00 a	3.3	C
31.22	31.18	31.26	30.94	30.95	30.75	31.14	33.42		29.23		4.18	

HORIZONTAL MAGNETIC INTENSITY.

								h m		h m		
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
807	810	809	816	812	808	8179	839	2 00 p	807	7 00 p	32	A
809	808	811	812	811	804	8012	825	4 00 p	765	10 15 a	60	A morning, C afternoon
822	817	820	833	827	830	8155	833	10 00 p	800	8 00 a	33	C
830	831	832	834	832	835	8301	835	M.N.	820	9 00 a	15	A Early in morning, C
835	832	830	832	830	832	8348	844	4 00 p	827	10 00 a	17	C
846	821	827	832	838	840	8393	855	4 00 p	821	8 00 a	34	C morning, A afternoon
832	827	828	833	828	830	8336	845	1 00 p	817	10 00 a	28	C
833	833	828	830	825	831	8347	864	1 00 p	816	9 00 a	48	C morning, A afternoon
777	792	793	824	817	812	3134	848	0 40 a	777	7 00 a	71	A morning, S° afternoon
814	805	806	811	818	819	8147	829	4 00 p	796	10 00 a	33	S°
818	817	817	823	820	818	8150	822	4 00 a	803	9 00 a	19	A morning, C afternoon
830	831	832	832	828	828	8235	839	3 00 p	806	8 00 a	33	C
842	841	841	841	840	845	8400	859	2 00 p	828	0 00 a	31	C
792	797	800	811	817	815	8204	861	2 25 p	792	7 00 p	69	S°
831	831	830	834	834	839	8285	846	2 00 p	812	1 00 a	34	A
835	825	821	823	826	823	8388	857	2 00 p	821	9 00 p	36	C
836	824	837	834	842	831	8349	851	1 37 p	828	5 00 p	23	C
843	844	845	855	849	849	8358	855	10 00 p	818	5 00 a	37	C, A late at night
833	836	823	853	839	844	8364	846	2 00 p	821	8 45 a	25	S°
831	831	837	836	843	836	8272	861	4 00 p	799	9 00 a	62	S Early in morning, S°
839	833	843	827	825	823	8328	846	6 00 p	805	10 45 a	41	S°
810	813	805	813	811	810	8107	824	2 00 a	802	5 00 a	22	C
8248	8231	8234	8290	8278	8274	8264	8447		8082		365	

明治三十年十月

鉛直磁力　　0.34.....+

H	午前 A. M.											正午	午後					
Day.	1	2	3	4	5	6	7	8	9	10	11	Noon	1	2	3	4	5	6
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	333	330	334	335	323	332	326	318	315	311	313	324	323	325	319	316	316	325
12	332	328	330	327	330	333	334	329	328	325	327	335	333	333	333	330	337	337
13	345	351	357	349	347	349	348	343	340	345	353	353	352	357	356	352	351	351
14	348	349	349	352	353	359	361	359	356	353	353	355	352	356	355	354	352	350
15	348	346	345	345	346	348	348	347	344	339	339	341	341	344	340	345	344	348
16	350	348	350	352	353	352	351	350	347	345	349	350	357	356	357	355	357	357
17	348	350	348	347	348	349	343	340	339	342	347	360	365	366	357	352	356	360
18	347	340	340	339	340	340	338	334	338	336	339	...	340	339	340	336	337	337
19	356	354	353	352	345	340	337	332	325	324	332	340	340	351	355	353	350	353
20	339	337	341	341	324	341	348	347	341	332	328	335	339	346	346	348	347	356
21	352	355	351	349	342	340	341	335	336	332	328	337	348	353	356	352	351	351
22	359	360	362	358	355	357	358	354	344	348	350	357	364	369	363	362	362	363
23	...	...	...	...	...	...	341	337	334	328	332	339	343	347	350	345	341	338
24	349	348	348	347	351	351	351	352	346	347	353	349	357	367	362	359	361	361
25	367	367	365	366	362	363	362	364	362	363	357	360	365	372	374	374	375	372
26	372	372	372	370	364	361	358	357	355	350	357	361	366	370	369	371	369	370
27	373	374	370	364	360	361	360	360	347	344	345	354	360	364	369	372	374	276
28	373	371	365	357	357	356	359	352	348	349	346	344	353	368	372	369	373	376
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	392	389	384	378	375	367	376	364	359	353	352	359	364	363	360	358	357	356
平均 Mean	3546	3538	3536	3516	3486	3499	3495	3460	3423	3403	3421	3474	5306	3551	3544	3528	3532	3546

空中電氣

1	4*	2*	3*	5*	7*	8*	8*	5*	4*	2*	2*	...	...	...	...	...	...	...
2	35	27	35	29	43	60	60	42	21	11	8	5	7	11	11	11	15	20
3	56	64	75	66	71	78	98	113	56	82	25	15	20	10	14	14	25	42
4	71	60	67	51	53	61	60	42	27	30	22	18	12	13	15	17	25	41
5	54*	53*	49*	53*	58*	73*	±	+	+	−	−	−	−	−	−	−	—	−
6	15	21	13	8	18	38	33	22	5	11	8	5	12	11	15	11	17	11
7	17	18	20	22	26	32	32	22	19	15	11	11	11	7	7	5	9	12
8	10	4	8	8	15	15	9	−	−	−	−	−	-37*	-18*	-10*	3	5	8
9	15	14	20	18	24	25	30	23	18	18	18	8	15	9	8	9	16	19
10	30	28	29	36	42	60	48	32	22	9	10	3	12	15	10	18	24	42
11	54	56	57	65	72	84	106	86	56	45	31	22	20	16	-4	-8	4	35
12	61	51	44	45	76	88	86	74	45	36	27	33	28	22	11	22	16	3
13	24	24	22	33	25	17	18	20	21	14	9	9	21	20	16	17	18	10
14	19	16	20	22	49	87	144	106	74	36	25	22	36	29	27	29	46	48
15	47	43	45	70	124	141	178	111	60	50	58	52	...	54	99	114	100	82
16	103	80	33	91	75	101	106	84	73	45	34	23	16	41	56	61	76	100
17	72	72	60	50	77	126	159	84	39	20	18	16	13	10	2	10	37	63
18	97	90	83	78	94	107	102	99	62	37	26	15	27	13	14	37	35	85
19	71	69	86	108	93	150	134	100	46	21	12	5	−	0	14	24	62	100
20	85	116	157	132	139	176	168	114	93	62	61	53	53	67	63	49	72	89
21	93	84	79	107	112	158	183	137	73	44	35	29	2	15	8	25	35	55
22	74	62	60	66	93	79	129	107	106	45	23	22	42	27	0	25	40	84
23	37*	+	+	±	−	−	−	−	−	−	−	−	−	−	−	−	−	−
24	20	20	18	20	44	86	148	157	100	50	...	...	...	...	...	50	48	71	56
25	35	29	28	30	42	72	75	60	59	36	37	27	31	62	46	29	48	57
26	47	36	37	39	66	98	120	61	36	41	30	19	32	33	38	45	69	...
27	87	79	84	83	99	88	75	81	81	52	52	58	74	39	44	44	68	93
28	86	85	94	81	107	125	150	117	112	114	102	70	72	62	66	88	91	86
29	96	133	142	136	121	136	156	117	83	79	58	40	34	26	34	45	34	55
30	115	112	87	142	168	158	172	165	81	87	66	54	54	56	41	31	45	41
31	−	−	−	0*	42	72	83	78	−	−	−	−	-6*	0*	±	37	55	107
平均 Mean	56.9	55.3	57.5	60.6	71.8	89.9	102.2	83.5	56.8	39.8	32.2	25.4	28.0	26.7	27.1	30.7	41.4	53.5

OCTOBER, 1897.

P. M. 7	8	9	10	11	夜半 M. N.	平均 Mean	最大 Maximum	最小 Minimum	較差 Range	記事 Remarks

VERTICAL MAGNETIC INTENSITY.

								h m		h m		
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...
332	333	334	334	331	323	3252	335	4 00a	311	10 00a	24	A morning, C afternoon
341	340	343	349	347	346	3345	349	10 00p	325	10 00a	24	C, A late at night
349	349	351	351	351	351	3500	358	1 20p	340	9 00a	18	A morning, C afternoon
352	349	347	349	347	347	3524	361	7 00a	347	11 00p	14	C
348	339	346	350	352	352	3452	353	11 20p	337	10 15a	16	C morning, A afternoon
357	355	356	358	351	350	3526	358	10 00p	345	10 00a	13	C
358	357	355	355	349	347	3516	366	2 00p	339	9 00a	27	A
341	347	347	355	354	351	3415	360	10 15p	334	8 00a	36	A
348	345	345	347	346	341	3443	356	1 00a	324	10 00a	32	A
356	355	356	359	356	353	3446	359	1 000p	328	5 00a	31	A morning, C afternoon
351	352	356	356	357	354	3473	358	10 45p	328	11 00a	30	C
363	363	366	367	367	365	3598	369	2 00p	344	9 00a	25	C
337	341	345	351	352	350	3417	...	...	...	...	...	C
365	368	364	365	366	365	3563	368	8 00p	346	9 00a	22	A
366	362	362	364	369	366	3658	377	5 20p	357	11 00a	20	C
372	372	377	373	379	369	3669	379	11 00p	350	10 00a	29	C
378	379	378	378	375	371	3661	379	8 00p	344	10 00a	35	A morning, C afternoon
375	377	875	...	...	...	3626	...	m n	...	11 00a	...	A, S° late at night
...	...	...	...	...	...	...	...	10 50p	...	9 40a	...	S°
...	...	...	...	...	...	...	...	4 00a	...	11 00a	...	S°
351	352	348	351	349	345	3626	392	1 00a	345	M. N.	47	A morning, C afternoon
3547	3545	3553	3562	3554	3526	3512	3634		3379		255	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
...	...	...	...	48	32	...	...	...	...	...	...	..
46	52	49	57	58	66	32.5	72	6 30a	3	1 20p	69	–
46	69	60	108	92	73	54.9	>146	10 37p	5	2 27p	>141	–
56	63	66	65	54	57	44.0	83	3 00a	9	0 50p	74	≡°5.10a–8a ◁7p ◁°8p ◁10p
–	10*	8*	7*	15*	15*	...	94	8 35a	<–119	11a-7 p	>213	●°6.45a–8a ●°8.30a–●–●°–
19	16	4*	5*	11*	–	15.4	43	6 00a	–32	M. N.	75	–●°–7.20a ●°8.30a–1.40p ●°2.25p–6p ●°7.40p–
15	13	17	8	8	8	15.2	36	6 40p	–32	0 00a	68	–●°–1.10a ⌊●°9.15p–
12	22	29	27	30	34	14.6	44	11 35p	–86	11 00a	130	●°1.45a–3.35a ●°4.40a–●–●°–5.10p ≡°9p–M.N.
25	28	33	34	32	31	20.4	38	9 40p	6	2 40p	32	– ⌊◁°9p.10p
57	81	72	55	41	43	34.1	98	8 00p	4	11 45a	94	–
47	54	55	51	50	46	45.8	114	7 10a	–11	3 30p	125	–
6	10	5	0	8	10	33.6	108	5 55a	–39	6 15p	147	●°10a–10.05a ●°3.55p–●5.30p–●°–10p–M.N.
3	7	9	10	10	17	16.4	46	4 20a	1	7 25p	45	●5.20a–●°6.20a–8.05a
81	93	113	96	78	57	56.4	154	6 15a	12	2 00a	142	–
121	94	112	129	127	106	92.0	>171	6 10a	39	2 25a	>132	–
109	94	119	92	80	52	74.7	>176	8 40p	0	1 27p	>176	–
84	106	107	119	122	109	65.6	177	6 55a	–24	2 50p	201	–
106	102	120	147	119	+	73.7	155	10 10p	3	1 50p	152	–
95	91	79	83	71	68	68.8	179	6 40a	–67	0 45p	246	–
124	180	125	139	151	116	107.7	>185	10 55p	37	2 14p	>148	◁ 11p.–
84	89	93	90	117	105	77.2	>198	7 15a	–11	1 00p	>209	◁–1a
94	98	84	19	25	55	60.8	146	6 37a	–9	3 15p	155	–
–	±	–	–	–	–	...	...	...	...	...	...	●°1.05a–●3.20a–●°7.25p–●8 45p–
56	36	32	21	21	18	53.6	177	7 37a	12	2 10a	165	–●–●°0.10a 3.40a
52	48	45	49	51	45	45.5	97	2 40p	15	0 15p	82	–
...	...	...	...	...	80	51.5	...	...	...	...	...	–
106	87	115	99	77	76	76.7	134	8 17p	22	2 42p	112	–
130	123	94	107	93	88	97.6	163	6 40a	58	1 40p	105	–
62	53	62	81	100	91	82.2	166	6 37a	18	1 30p	148	–
28	0	–	–	–	–	89.6	>198	4 30a	<–125	...	>323	≡23.30a–≡°6.05a–7.50a ◢10p–
99	85	85	69	68	68	72.9	134	6 15p	<–127	...	>261	–◢–4a ◢2p
65.8	69.0	71.2	70.2	67.3	60.8	56.1						

明治三十年十一月

偏角 4°W+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	30.9	30.7	30.7	30.9	30.9	31.0	31.0	29.7	29.2	30.1	30.9	32.2	32.3	32.2	31.6	30.1	31.0	37.2
2	31.0	30.9	31.2	31.4	30.4	30.7	31.9	30.9	31.6	32.2	32.9	33.1	32.2	31.3	30.7	30.6	31.0	31.4
3	31.4	30.8	30.5	31.1	30.1	30.7	30.5	31.0	31.5	32.7	33.9	33.6	32.9	32.1	31.4	31.1	31.7	31.7
4	31.0	31.0	31.0	31.0	30.7	30.4	39.1	29.5	30.2	31.5	32.3	32.6	32.3	31.7	31.5	31.1	31.1	31.1
5	31.5	30.9	30.6	30.7	30.2	30.2	39.3	29.3	30.9	31.4	32.1	32.5	32.4	31.9	31.5	31.8	31.6	32.1
6	31.4	31.2	20.9	20.6	30.6	31.4	30.8	30.3	30.0	30.8	31.8	32.5	33.4	33.0	32.7	30.8	32.1	31.6
7	30.9	31.2	31.3	31.0	31.9	32.0	31.2	30.7	30.7	31.2	31.9	32.5	32.3	31.6	30.7	30.4	31.0	31.5
8	31.3	31.1	31.1	30.7	31.1	31.3	30.7	30.2	30.5	31.1	32.3	32.4	32.3	31.7	31.3	30.8	31.3	31.4
9	31.4	31.3	31.0	31.3	31.3	31.3	30.2	29.8	30.5	30.8	32.0	33.2	32.6	32.0	31.3	31.8	31.7	32.1
10	31.8	31.1	31.1	31.7	30.9	31.9	30.6	20.2	30.9	31.2	32.4	32.8	33.0	32.1	31.4	31.4	31.1	31.5
11	31.4	31.2	31.4	31.2	31.1	30.8	29.9	29.3	39.7	31.4	33.3	34.3	33.6	33.6	32.2	31.4	31.7	31.5
12	31.5	31.5	31.2	31.8	31.5	31.5	30.9	29.8	39.6	30.7	31.6	32.3	32.9	32.9	32.8	31.8	31.8	31.8
13	31.6	31.9	31.9	32.0	32.2	32.2	32.2	30.7	30.6	30.9	31.6	32.3	33.2	33.1	32.2	31.5	31.6	31.8
14	31.3	31.1	31.1	30.7	31.4	31.3	32.3	31.4	31.0	31.6	32.4	33.0	32.9	32.3	32.3	32.4	32.0	32.1
15	32.3	32.9	31.6	31.6	32.0	31.4	31.4	31.0	31.4	32.3	33.6	33.6	33.0	32.9	31.4	31.0	32 3	31.4
16	32.5	31.8	31.8	31.8	31.7	31.7	31.2	30.6	30.9	32.2	33.1	33.6	33.1	33.0	32.0	31.4	31.4	31.5
17	32.1	31.7	31.7	31.4	31.2	31.5	31.1	30.9	31.1	31.7	32.4	33.6	33.7	33.7	33.7	32.5	32.7	33.3
18	31.5	30.9	30.9	31.5	31.8	32.6	32.9	32.6	32.3	33.5	34.1	34.4	33.2	32.8	32.2	31.6	31.8	32.1
19	31.6	31.5	32.3	31.3	31.6	33.4	32.5	32.6	32.9	33.8	33.4	33.2	32.9	32.5	31.9	32.1	32.2	32.5
20	32.2	32.2	32.0	32.0	32.2	32.4	32.3	32.3	31.1	30.7	31.1	32.0	32.6	32.6	32.3	31.9	31.9	31.7
21	31.2	31.1	31.2	31.5	32.8	32.0	33.1	33.9	32.7	33.0	33.3	33.3	32.8	32.7	32.4	32.0	31.8	31.7
22	32.3	32.1	32.5	32.1	31.8	31.8	31.8	31.5	31.7	31.8	32.3	32.8	33.1	33.1	32.8	32.7	32.0	32.5
23	32.1	32.1	32.2	32.5	32.5	32.2	32.2	31.6	31.5	32.1	33.1	34.0	33.4	32.9	32.4	31.9	31.9	32.1
24	31.6	31.5	31.5	30.9	31.6	32.2	32.6	31.8	31.3	31.3	32.1	33.5	32.9	33.1	32.5	32.2	32.1	31.8
25	31.3	31.6	31.1	31.6	32.9	33.2	35.2	34.5	33.2	32.9	33.0	32.7	33.3	31.9	32.2	31.4	32.2	32.3
26	31.4	31.9	31.7	33.2	32.3	32.9	33.6	33.6	32.9	32.9	32.5	32.6	32.7	32.6	32.6	32.2	32.2	32.0
27	31.5	32.0	31.8	32.1	32.4	32.0	32.4	32.3	32.3	32.6	32.8	33.3	33.7	33.1	32.4	32.3	31.5	33.6
28	32.3	31.5	31.5	31.8	31.8	32.0	32.3	31.7	31.1	32.1	32.6	34.5	34.5	33.1	32.6	32.1	32.3	32.1
29	32.2	32.4	32.1	32.1	32.4	32.2	32.5	31.6	31.8	31.5	31.9	32.7	33.2	33.2	32.5	31.9	32.1	32.1
30	31.9	32.1	31.9	32.4	32.9	31.9	32.8	32.4	31.8	32.1	33.1	33.7	34.4	33.5	33.1	32.1	31.8	32.0
31																		
平均 Mean	31.61	31.51	31.43	31.53	31.64	31.74	31.68	31.20	31.23	31.80	32.53	33.09	33.03	32.61	33.09	31.61	31.76	31.79

水平磁力 0.29.....+

1	832	830	827	830	828	826	829	828	832	831	832	834	842	847	848	847	849	838
2	828	830	825	815	818	812	817	817	811	808	814	823	834	841	838	836	831	823
3	812	820	818	825	826	824	818	808	802	813	815	823	831	832	833	829	824	823
4	830	827	827	828	829	828	821	814	814	814	827	837	845	848	845	844	839	842
5	834	837	839	836	851	845	840	832	827	826	826	833	838	842	848	843	840	834
6	832	831	827	836	825	829	833	825	820	816	813	815	822	819	823	811	802	802
7	818	817	821	821	824	824	831	831	831	827	829	831	837	840	835	831	823	824
8	826	824	823	825	823	829	828	823	919	821	828	835	834	838	837	829	825	823
9	830	830	829	829	828	829	828	818	815	817	822	830	829	828	833	830	826	824
10	825	828	824	826	828	822	822	812	805	802	803	808	814	825	832	830	829	824
11	819	820	821	820	827	829	832	836	855	833	841	833	843	843	836	833	829	828
12	829	827	824	826	827	829	834	833	828	824	823	827	827	827	825	833	832	830
13	819	822	825	825	825	828	830	825	821	822	824	831	834	838	838	832	827	824
14	825	828	827	827	821	827	832	840	832	827	831	833	839	844	834	813	797	791
15	808	819	820	817	815	817	814	819	817	815	811	813	815	817	808	799	791	791
16	825	821	820	819	820	820	817	812	809	809	810	818	825	826	826	825	821	822
17	819	820	819	822	822	823	820	815	813	811	812	815	824	824	806	801	797	895
18	786	808	803	806	817	799	813	803	804	789	801	805	811	815	808	818	815	815
19	812	808	821	812	809	815	811	806	799	791	797	796	806	810	814	810	806	806
20	804	802	805	805	806	808	809	809	807	809	808	812	814	818	822	822	818	820
21	786	783	783	792	805	802	802	802	803	799	802	807	809	809	809	810	807	805
22	810	807	812	814	814	813	816	807	804	799	806	803	801	802	801	799	806	807
23	802	800	802	804	804	809	811	812	811	811	812	811	810	808	806	809	808	808
24	816	811	813	822	817	825	828	830	831	825	825	827	826	822	819	822	827	826
25	804	818	819	798	800	800	798	815	818	818	812	807	810	807	813	815	809	804
26	800	795	794	798	799	797	803	809	806	807	816	811	805	808	812	812	808	806
27	806	801	806	801	812	809	801	806	802	802	807	...	815	814	811	814	809	808
28	803	806	806	808	807	804	801	802	798	788	788	796	800	811	813	813	804	809
29	800	800	802	803	800	801	805	805	795	798	796	798	804	809	814	813	808	808
30	812	808	810	804	811	804	803	807	805	804	898	802	800	805	808	799	810	807
平均 mean	8151	8159	8164	8165	8179	8176	8183	8167	8138	8119	8143	8177	8215	8239	8232	8207	8172	8156

NOVEMBER, 1897.

MAGNETIC DECLINATION.

P. M. 7	8	9	10	11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
							h m		h m			
31.3	31.7	31.0	31.2	31.4	31.4	30.86	32.5	1 35 p	**27.2**	6 00 p	5.3	C morning, A afternoon
31.9	31.6	31.4	31.6	31.6	31.6	31.46	33.1	noon	29.8	5 28 a	3.3	A
31.4	31.3	31.5	31.7	31.1	31.3	31.54	34.0	11 07 a	30.1	7 26 a	3.9	C
31.4	31.1	31.3	31.0	31.3	31.3	31.12	32.6	noon	29.1	7 00 a	3.5	C oa–8p, A 8p–M.N.
31.8	31.8	31 8	31.9	31.5	31.5	31.30	32.5	noon	29.3	8 00 a	3.2	A
31.2	30.9	30.8	30.9	30.9	31.2	31.32	33.6	1 05 p	30.0	9 00 a	3.6	A
30.7	31.7	31.7	31.9	31.7	30.7	31.35	32.5	noon	30.4	8 32 a	2.1	C
31.7	32.0	32.0	31.7	31.6	31.4	31.37	32.4	noon	29.9	8 25 a	2.5	C morning, A afternoon
31.4	31.6	31.7	31.3	30.7	31.7	31.42	33.2	noon	29.8	8 00 a	2.4	C
31.4	32.1	31.8	31.7	31.7	31.1	31.54	33.0	1 00 p	30.0	7 52 a	3.0	C
31.8	31.7	31.7	31.7	31.4	30.8	31.59	34.3	noon	28.9	7 44 a	5.4	C
31.9	31.9	31.9	30.7	31.5	31.5	31.55	33.1	1 42 p	29.6	9 00 a	3.5	C
31.9	32.0	31.5	31.5	31.2	31.5	31.80	33.5	1 30 p	30.6	9 00 a	2.9	C
32.0	32.0	32.3	32.1	31.3	31.1	31.81	33.6	0 15 p	30.2	7 12 p	3.4	C morning, S° afternoon
31.6	31.6	31.6	32.3	32.1	32.3	32.02	33.8	11 25 a	30.8	3 48 a	3.0	A
32.0	32.4	32.1	32.4	31.8	32.2	32.01	33.7	0 45 p	30.6	8 00 a	3.1	C oa–7p, A 7p–M.N.
33.7	33.6	33.6	32.2	31.7	30.9	32.36	34.0	7 16 p	30.9	8 00 a	3.1	C morning, S° afternoon
32.1	32.3	32.2	32.2	32.3	32.2	32.33	34.4	noon	30.3	2 21 a	4.1	S° morning, A afternoon
32.2	32.5	32.2	32.1	32.1	32.1	32.39	33.8	10 00 a	31.0	4 33 a	2.8	A morning, C afternoon
31.9	32.4	32.4	32.4	31.7	31.6	32.00	32.6	1 00 p	30.7	10 00 a	1.9	C
32.3	32.1	32.4	32.0	32.1	31.8	32.30	33.3	noon	30.5	1 21 a	2.8	A morning, C afternoon
32.5	32.5	32.1	32.1	32.0	32.3	32.26	33.4	1 12 p	31.2	9 24 a	2.2	C
32.2	32.4	32.1	32.1	31.9	31.9	32.30	34.0	noon	31.5	9 00 a	2.5	C
31.6	31.3	31.3	31.6	30.4	30.6	31.80	33.5	noon	30.0	11 18 p	3.5	A
31.9	32.5	32.2	32.2	30.7	30.8	32.37	**35.2**	7 00 a	30.1	3 12 a	5.1	A
32.2	33.0	32.5	32.5	31.9	31.7	32.48	33.9	7 36 a	30.8	0 03 a	3.1	A
32.8	31.1	32.3	33.0	32.3	32.3	32.41	33.7	1 00 p	31.1	8 00 p	2.6	A
32.3	32.3	32.3	32.3	32.3	31.8	32.30	34.8	0 12 p	31.1	9 00 a	3.7	C
32.1	31.9	32.4	32.5	31.6	32.1	32.21	33.5	1 24 p	31.3	8 24 a	2.2	C
32.2	32.4	32.5	32.4	31.9	32.1	32.48	34.4	1 00 p	31.6	9 33 a	2.8	C
31.91	32.00	31.95	31.91	31.59	31.56	31.87	33.53		30.28		3.25	

HORIZONTAL MAGNETIC INTENSITY.

P. M. 7	8	9	10	11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
							h m		h m			
835	830	837	837	835	834	8349	848	3 00 p	824	5 45 p	.0824	C morning, A afternoon
822	827	829	822	818	816	8231	845	1 00 p	808	10 00 a	37	A
823	827	826	828	829	828	8224	833	3 00 p	802	9 00 a	31	C
839	841	844	848	842	836	8337	848	2 00 p	814	8 00 a	34	C oa–8.p, A 8.p–M.N.
833	832	836	839	842	836	8370	**851**	5 00 a	823	10 13 a	28	A
794	896	802	807	816	816	8172	836	4 00 a	793	6 52 p	43	A
828	825	821	820	819	835	8268	840	2 00 p	817	2 00 a	23	C
820	822	823	824	824	824	8261	838	2 00 p	819	9 00 a	19	C morning, A afternoon
830	836	834	832	841	827	8281	841	11 00 p	815	9 00 a	26	A
822	818	821	819	815	830	8202	834	3 52 p	798	10 30 a	36	C
827	831	830	829	828	833	8307	836	2 06 p	819	1 00 a	27	A
830	830	830	840	830	829	8289	840	10 00 p	823	3 50 a	17	C
825	825	829	826	826	825	8269	838	3 00 p	819	1 00 a	19	C
792	804	815	812	813	827	8221	847	1 49 p	787	6 25 p	60	C morning, S° afternoon
795	805	810	810	816	812	8106	820	3 00 a	788	6 12 p	32	A
815	814	821	817	824	820	8190	828	3 08 p	808	9 35 a	20	C o.a–7.p, A 7.p–M. N.
785	785	777	788	794	804	8080	827	1 10 p	770	11 45 p	57	C morning, S° afternoon
814	814	813	811	808	811	8078	821	3 46 p	**768**	0 30 a	53	S° morning, A afternoon
805	806	805	805	807	806	8068	826	2 45 a	790	9 42 a	36	A morning, C afternoon
817	814	812	806	808	793	8103	823	3 05 p	793	M. N.	30	C
808	811	811	812	812	812	8034	816	10 35 p	778	1 34 a	38	A morning, C afternoon
804	801	801	804	802	803	8057	816	7 00 a	798	3 55 p	18	C
803	802	805	805	805	821	8075	821	M. N.	800	2 00 a	21	C
828	837	829	815	819	802	8226	839	8 12 p	797	11 50 p	42	A
809	807	807	812	817	805	8092	834	11 24 p	798	4 00 a	36	A
808	797	802	806	811	808	8049	816	11 00 a	794	1 30 a	22	A
810	812	807	801	803	811	8074	815	1 00 p	797	4 18 a	18	A
804	808	807	803	801	808	8037	815	2 20 p	784	10 22 a	31	C
809	810	808	803	810	814	8047	814	3 00 p	795	9 00 a	19	C
806	805	804	803	801	797	8047	812	1 00 a	797	M. N.	15	C
8147	8157	8165	8161	8172	8174	8171	8309		8005		.0.8305	

明治三十年十一月

鉛直磁力　0.34……+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	正午 11	Noon	午後 1	2	3	4	5	6
1	332	323	319	318	315	312	314	306	312	311	303	303	317	329	338	340	345	339
2	335	334	331	326	322	320	322	321	313	323	323	338	342	344	340	338	336	334
3	331	335	332	334	331	333	333	331	324	335	342	349	347	343	342	337	335	337
4	332	330	330	330	330	334	331	325	322	319	325	328	328	332	329	327	327	328
5	320	323	323	320	328	324	321	313	312	314	313	318	324	326	329	328	328	326
6	326	324	322	328	323	328	331	326	320	318	316	316	324	326	331	326	326	326
7	331	330	330	329	330	329	330	326	321	314	314	320	326	332	332	330	332	335
8	336	333	334	334	333	337	335	327	327	327	327	329	329	335	335	332	333	334
9	337	337	334	335	335	339	337	335	323	321	324	331	332	338	343	343	344	346
10	340	339	338	338	336	336	334	331	330	329	343	335	336	342	345	343	340	340
11	332	332	334	332	335	337	338	335	329	324	329	325	330	332	330	331	332	334
12	338	338	335	337	340	338	340	337	326	316	314	317	321	325	331	338	341	340
13	331	332	336	334	334	339	339	334	328	327	323	322	329	333	335	331	334	332
14	325	328	326	326	326	335	336	340	328	323	326	325	337	342	338	341	323	325
15	334	340	336	335	336	337	334	334	328	325	326	326	327	336	335	330	331	332
16	343	338	336	336	338	340	339	338	335	334	338	341	345	348	347	340	345	346
17	345	346	346	347	346	345	341	338	332	332	328	331	337	341	334	334	335	339
18	348	358	351	350	357	355	353	342	338	333	340	342	346	348	342	350	350	349
19	341	338	345	336	332	338	333	333	328	324	326	327	334	339	341	336	335	333
20	329	326	324	324	322	324	322	319	320	320	316	317	320	324	330	332	331	333
21	319	316	317	321	321	317	321	325	324	323	325	328	330	331	329	331	330	339
22	331	331	330	330	330	330	330	325	324	320	323	325	329	330	333	335	340	338
23	327	326	328	329	326	331	329	327	322	319	319	318	318	319	319	323	323	326
24	326	320	324	329	330	333	335	336	330	324	328	329	330	332	333	340	343	338
25	338	345	341	332	333	336	338	343	336	335	334	331	340	341	347	347	347	345
26	315	312	311	310	308	306	306	310	312	303	302	302	302	309	318	321	323	321
27	319	319	320	319	323	321	318	320	326	318	317	323	319	324	322	325	324	328
28	319	317	315	313	311	308	303	305	303	298	300	306	311	323	324	323	322	323
29	321	313	312	313	309	310	309	310	301	302	304	311	317	323	329	329	324	325
30	316	317	315	309	312	309	308	309	303	303	300	305	310	317	324	325	328	325
平均 Mean	3306	3300	3292	3285	3284	3294	3287	3267	3226	3205	3216	3241	3279	3321	3335	3335	3336	3335

空中電氣

1	81	66	63	70	98	149	167	141	131	117	79	44	85	94	102	74	84	105
2	141	144	133	127	135	152	200	167	122	118	85	62	73	116	102	130	91	118
3	102	93	99	95	94	119	165	191	135	119	76	97	107	113	75	69	80	80
4	114	124	109	93	95	117	124	134	121	46	41	41	27	30	11	21	35	37
5	33*	22*	20*	8*	8*	10*	+	−	±	±	+	−	−	±	−	−	+	+
6	±		±	+	−	+	+	+	±	−	+	+	0*	26*	37*	38*	56*	51*
7	64	65	38	24	49	38	105	87	65	68	58	59	43	50	57	61	72	95
8	85	73	76	94	121	169	162	149	103	70	68	50	50	44	45	60	134	94
9	67	60	83	95	105	120	121	99	86	66	68	57	82	64	53	76	75	74
10	94	86	75	93	118	141	150	173	66	42	37	30	35	29	41	43	42	35
11	53	41	30	48	61	99	96	89	45	47	47	28	25	9	14	14	9	20
12	75	107	103	93	101	111	143	107	93	66	59	51	46	50	55	66	75	93
13	113	116	111	95	111	118	117	104	73	66	57	51	41	38	39	52	89	133
14	114	107	101	102	109	118	146	129	104	73	70	62	59	36	66	64	86	123
15	112	123	96	110	118	163	159	134	111	95	59	56	50	53	50	60	35	109
16	58*	58*	53*	54*	75*	91*	92*	86*	67*	44*	34*	22*	±					
17	±	+	−	−	−				16*	30*	28*	48	24	36	44	66	84	141
18	51	49	48	27	43	94	109	76	41	47	38	44	27	23	23	21	33	28
19	27	31	35	32	33	42	51	58	56	30	28	30	±	−	±			±
20	37	48	43	43	42	49	46	40	45	30	27	23	19	17	16	17	23	25
21	27	27	25	27	28	30	36	34	34	32	26	21	22	18	17	20	19	24
22	19	23	23	24	26	28	42	51	29	22	22	21	15	14	17	20	21	24
23	33	33	30	28	23	23	17	12	20	18	21	22	26	21	21	26	32	28
24	−29*	0*	10	14	13	15	16	16	16	17	13	15	14	14	15	16	20	21
25	16	19	22	26	23	48	66	66	25	22	26	42	12	13	21	21	27	28
26	54	68	75	94	72	85	121	119	87	50	40	33	28	28	26	23	−1*	26
27	39	37	21	27	31	41	48	46	39	30	35	30	28	23	22	19	25	27
28	35	37	38	40	48	54	58	64	54	56	44	40	24	19	26	20	29	44
29	20	21	25	32	49	61	67	48	32	31	36	38	47	21	15	63	61	113
20	94	73	72	85	125	219	254	>258	247	122	85	56	34	35	42	45	−12	33
平均 Mean	66.7	66.8	60.9	63.0	72.0	92.5	107.2	99.7	76.4	57.7	47.9	42.6	40.1	38.8	39.0	44.9	50.8	64.5

NOVEMBER, 1897.

VERTICAL MAGNETIC INTENSITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
								h m		h m		
343	344	346	334	341	341	3262	346	9 00p	303	11 00a	.0[3] 43	C morning, A afternoon
334	340	342	339	336	334	3320	345	1 15p	313	9 00a	32	A
336	339	338	340	339	333	3365	349	Noon	324	9 00a	25	C
327	328	329	329	327	318	3277	334	6 00a	318	M.N.	16	C 0.a–8.p, A 8p–M.N.
327	327	331	332	333	328	3237	333	11 00p	312	9 00a	21	A
325	327	329	330	335	330	3255	335	11 00p	316	11 00a	19	A
339	339	339	338	337	341	3302	341	M.N.	314	11 00a	27	C
335	338	338	336	337	334	3331	338	7 45p	327	9 00a	11	C morning, A afternoon
350	350	350	346	350	340	3383	353	7 30p	321	10 00a	32	A
338	337	338	336	335	339	3374	345	3 00p	328	10 26a	17	A
336	339	339	339	339	339	3334	339	10 26p	322	9 38a	17	A
341	342	343	345	338	342	3339	345	10 00p	314	11 00a	31	C
334	333	333	331	328	336	3316	340	7 12a	322	Noon	18	C
332	337	343	341	342	340	3327	345	8 32p	319	4 50p	26	C morning, S° afternoon
336	342	343	343	343	336	3344	344	10 30p	324	10 30a	20	A
344	346	349	348	355	347	3423	355	10 20p	334	10 00a	21	C 0.a–7.p, A 7.p–M.N.
340	343	347	353	357	354	3413	358	11 10p	328	11 00a	30	C morning, S° afternoon
349	347	346	345	343	340	3437	362	0 09a	333	10 00a	29	S° morning, A afternoon
334	336	336	333	333	329	3342	347	2 42a	323	9 45a	24	A morning, C afternoon
329	328	329	326	329	320	3247	333	6 00p	316	11 00a	17	C
333	336	335	336	336	331	3368	338	8 20a	315	1 30a	23	A morning, C afternoon
336	331	331	334	330	329	3302	340	5 00p	320	10 00a	20	C
323	323	324	325	322	324	3237	331	6 00a	318	1 00p	13	C
340	344	339	334	338	330	3327	344	8 00p	320	2 00a	24	A
348	346	345	350	340	317	3398	350	10 00p	317	M.N.	33	A
322	320	320	323	324	319	3133	326	10 50p	302	1 00p	24	A
328	332	326	322	321	323	3224	332	8 00p	317	11 00a	15	A
323	322	325	322	319	320	3148	325	9 00p	298	10 00a	27	C
324	325	325	324	325	321	3169	329	4 00p	301	9 00a	28	C
323	323	322	317	309	303	3138	328	5 00p	300	11 00a	28	C
3343	3355	3360	3350	3347	3306	3300	3410		3173		.0[3] 237	

ATMOSPHERIC ELECTRICITY.

P. M. 7	P. M. 8	P. M. 9	P. M. 10	P. M. 11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
								h m		h m		
131	140	112	123	119	135	1048	>203	5 45a	34	11 48a	>169	≡°5.45a–7.40a
183	140	135	124	103	101	1251	>201	7 00a	40	1 12p	>161	–
84	103	94	118	110	91	1045	>199	7 30p	62	4 54p	>137	≡°5.35a–8.30a,≡°8.p–11.p
35	36	36	41	35	33	64.0	181	7 10a	5	2 47p	176	–
+	+	+	+	±	–	...	+	...	–	...	...	●°5.50a–●10.10p–
41*	27*	62*	49*	50*	64*	...	+	...	–	...	...	–●–●°5.45a–8.20p
64	51	73	72	72	91	63.4	110	6 50a	12	5 46a	98	●°5.05–5.20a
77	101	124	124	131	70	94.7	185	6 20a	40	2 50p	145	–
107	94	100	103	95	86	84.8	128	5 34a	48	2 05a	80	–
50	59	62	56	54	56	69.5	195	7 42a	26	4 30p	169	–
41	53	59	74	65	77	47.7	109	6 22a	-11	4 24p	120	●°5.20p–5.30p,●°9.p–9.35p
94	107	123	128	121	119	91.1	144	8 30p	46	1 35p	98	–
79	109	107	111	102	111	89.3	221	6 18p	38	2 00p	183	≡°7.30p–11.10p
200	248	102	165	123	109	109.0	267	8 14p	31	1 52p	236	–
75	62	61	56	70	62	86.6	173	7 36a	17	5 10p	156	●°11.30p–
—	–	–	–	–	±	...	+	...	–	...	...	–●°–0.30a,≡°6.05a–7.35a.●°11.a–●3.30p–
103	132	124	143	112	75	87.1	211	7 35p	<-148	6 30a	>359	–●–●°6.20a–●7.40a–●°8.35a–11.20a
30	23	23	23	23	26	40 4	124	5 32a	18	3 38p	106	–
7*	7*	19*	-7*	26*	33*	37 7	70	8 45a	-105	4 07p	175	●°11.20a–●2.40p–●°6.30p–10.15p
28	33	28	26	16	23	31.0	59	6 16a	0	11 25p	59	≡2.20a–4.35a≡°9.p–10.p
34	35	35	35	26	21	27.2	44	8 33p	17	5 21p	27	●°6.45a–7.20a
25	29	33	36	37	37	26.6	63	7 38a	14	2 05p	49	–
26	23	20	26	21	32	24.2	40	11 58p	12	8 00a	28	●°7.40a–9.a●8.40p–●11.15p
20	22	21	15	17	14	16.1	32	0 00a	-43	1 10a	75	–●–●°2.45a–5.40a.●°8.45a–11.45a
27	33	36	47	57	47	32.1	74	7 14a	12	2 00p	62	⚡ Noon–1.p
53	46	37	37	36	36	55.4	136	6 48a	-10	5 10p	146	≡°7.10a–8.20a●°4.15p–5.35p
32	37	37	38	42	35	33.0	51	6 46a	16	3 10a	35	–
37	31	21	24	19	20	36 7	76	7 36a	18	11 36p	58	–
135	101	133	129	134	159	65 5	207	11 35p	2	2 48p	205	≲°NNE 10.p–11.p
45	67	80	61	34	49	91.8	>258	8 00a	-33	5 08p	>221	–
69.8	73.7	69.8	74.4	68.2	66.0	64.7						

明治三十年十二月

偏角 4°W+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	31.5	31.5	31.6	31.9	31.9	32.2	32.5	32.4	31.3	31.0	32.2	33.2	33.7	33.7	32.5	32.4	32.5	33.5
2	31.8	31.2	32.4	32.5	32.4	32.4	32.5	32.2	31.6	31.8	32.1	32.4	32.7	33.1	33.4	32.5	32.2	32.1
3	32.2	32.2	32.2	32.2	32.1	32.1	32.1	31.2	31.2	31.6	32.4	33.4	33.4	33.1	32.2	31.5	31.3	31.8
4	32.4	32.2	32.2	32.4	32.4	32.1	32.4	32.1	31.6	32.5	32.4	33.5	33.4	33.2	32.4	31.3	32.1	31.6
5	32.4	32.2	32.1	32.1	32.1	32.2	32.8	32.2	31.3	30.6	31.9	32.2	32.2	32.1	31.9	31.5	31.3	31.5
6	31.3	31.2	32.2	32.1	31.6	32.1	32.2	31.6	20.9	29.9	30.0	31.5	32.4	32.8	32.2	30.9	32.1	32.4
7	31.0	31.3	31.5	31.8	31.9	32.2	32.2	32.2	31.6	30.7	31.3	32.5	33.2	32.9	32.2	31.3	31.2	31.6
8	31.3	31.3	31.2	31.5	31.2	32.1	32.1	30.7	30.4	30.2	30.7	32.1	32.5	32.2	31.5	30.7	30.9	31.2
9	31.2	31.3	31.3	31.3	31.3	31.3	31.8	30.9	30.6	29.7	30.9	32.4	32.7	32.5	32.4	31.3	31.0	31.3
10	31.0	31.0	30.9	30.9	31.2	31.6	32.2	30.6	20.3	30.0	31.0	32.5	33.4	33.1	32.8	31.9	31.6	32.2
11	30.3	30.6	30.7	29.7	31.2	31.8	32.4	32.7	32.5	32.4	32.5	32.7	32.8	30.9	29.4	31.6	28.7	32.5
12	33.1	32.7	30.9	32.2	32.4	32.4	33.8	33.8	34.3	33.2	32.8	33.8	33.7	32.4	31.9	31.3	31.9	32.4
13	32.8	32.7	32.4	32.4	32.4	32.4	32.5	31.8	31.3	31.6	32.2	33.2	33.1	32.9	32.7	32.2	32.1	32.2
14	32.4	32.4	32.2	32.2	32.2	32.2	32.1	30.7	20.2	30.9	32.2	33.8	34.1	33.8	32.7	31.9	32.1	32.2
15	32.4	32.5	32.5	32.1	32.1	31.8	31.6	30.7	30.4	30.7	32.2	32.2	32.2	31.6	31.8	31.2	31.3	31.0
16	31.8	31.3	31.3	32.2	31.3	32.4	32.4	32.1	31.0	32.4	32.7	34.1	33.8	32.2	31.2	31.3	30.9	30.7
17	31.8	31.6	31.6	31.6	31.9	31.5	31.3	30.9	30.2	30.7	31.6	33.4	33.7	33.4	32.4	31.3	32.4	32.4
18	32.5	32.5	32.2	32.4	33.7	32.7	33.5	33.4	32.1	32.7	33.4	33.8	33.7	33.2	32.4	31.9	32.1	31.9
19	31.8	31.6	31.9	31.6	31.3	31.9	32.5	31.6	30.7	30.7	32.7	34.6	35.0	34.3	33.2	32.1	31.3	31.5
20	31.8	31.9	31.6	32.2	31.6	31.6	31.9	30.9	29.9	29.3	29.7	31.9	32.2	32.4	32.1	31.9	31.0	29.6
21	39.4	31.0	32.4	35.0	32.8	35.5	34.4	32.9	32.5	32.8	33.7	35.0	33.7	33.7	33.4	32.1	32.2	32.8
22	32.8	32.1	32.4	32.5	33.2	33.4	32.4	31.6	31.5	31.5	32.2	33.1	33.1	32.8	32.5	32.2	30.9	32.2
23	32.2	33.5	32.2	32.2	32.2	32.1	32.1	32.7	31.0	31.6	32.2	33.4	33.1	32.8	32.8	32.1	31.9	32.1
24	32.2	32.2	32.1	22.1	32.1	32.4	32.4	30.9	30.6	31.2	32.7	34.0	33.7	32.7	32.1	32.1	32.1	31.8
25	32.2	32.2	32.2	32.4	32.7	32.2	32.4	30.9	30.7	31.0	32.2	32.9	32.7	33.4	32.5	32.4	31.5	32.2
26	32.2	31.8	32.4	31.5	32.4	30.5	32.4	31.0	30.2	30.4	31.8	32.7	33.1	33.1	32.4	31.3	31.0	31.9
27	32.2	32.2	32.2	32.1	32.2	32.2	32.1	30.7	30.6	31.0	32.1	32.4	33.1	32.8	32.2	31.5	31.6	31.6
28	31.9	31.9	31.9	31.9	32.1	32.1	32.1	30.7	30.0	31.6	33.5	33.1	33.5	32.4	31.2	30.7	30.7	30.9
29	32.1	32.1	32.1	31.9	32.1	32.1	31.2	30.6	29.9	30.9	32.4	32.9	33.1	32.4	32.2	32.1	32.1	32.4
30	32.1	32.2	32.5	32.5	32.2	32.2	32.7	31.0	32.2	33.4	35.0	35.2	34.0	32.4	31.3	31.2	31.2	31.3
31	32.2	32.2	33.4	34.3	32.2	32.2	32.1	31.3	32.1	...	...	33.8	33.7	32.5	32.1	31.2	31.2	30.7
平均 Mean	31.88	31.89	31.96	32.12	32.08	32.25	32.36	31.58	31.05	31.27	32.16	33.15	33.25	32.80	32.19	31.64	31.51	31.79

水平磁力 0.29.....+

1	830	829	829	836	832	834	840	845	845	839	827	821	821	823	827	825	809	805
2	812	809	807	816	817	817	825	829	829	822	822	823	816	810	809	805	807	809
3	817	815	811	817	822	821	826	825	824	819	818	819	822	827	829	826	827	823
4	820	819	820	822	823	826	824	828	831	829	829	830	831	830	832	828	820	800
5	812	824	822	324	826	826	824	832	839	833	818	819	812	816	816	812	803	809
6	820	818	819	817	819	823	829	839	841	838	827	821	813	816	820	820	808	798
7	817	817	819	821	819	822	832	836	835	835	831	827	825	824	823	820	821	920
8	824	824	829	829	829	828	837	832	824	819	818	822	823	827	829	827	824	823
9	824	825	828	828	831	832	840	843	840	836	832	832	828	828	830	829	828	827
10	838	842	843	845	848	846	849	854	852	855	852	842	841	828	826	828	824	821
11	791	800	804	804	806	803	813	825	831	832	833	833	818	793	814	783	790	756
12	745	757	764	768	750	763	767	786	790	786	786	789	795	801	799	786	760	742
13	783	786	787	788	792	793	797	796	789	779	776	781	788	791	794	800	801	796
14	801	802	801	803	802	802	802	796	784	783	784	789	792	799	806	806	802	801
15	805	804	809	809	810	811	812	812	801	792	795	802	805	808	798	797	787	802
16	810	813	818	818	821	816	813	817	814	803	795	777	808	820	817	812	807	811
17	819	815	819	822	824	829	825	827	830	817	816	817	820	823	821	815	815	813
18	821	816	826	823	839	840	841	838	836	820	809	810	816	820	820	823	819	817
19	815	816	818	820	819	822	823	829	827	815	809	815	819	821	823	826	822	821
20	821	817	816	825	825	824	827	833	831	830	831	829	830	832	832	837	850	854
21	719	709	735	745	749	763	781	773	790	778	770	761	775	778	770	781	780	774
22	787	791	802	787	790	798	796	806	807	798	800	797	794	797	799	793	788	788
23	803	807	815	805	807	807	812	805	816	812	812	808	805	798	805	812	814	812
34	801	807	821	817	816	813	822	823	821	817	814	820	818	818	820	804	799	792
25	815	818	819	814	822	821	815	814	807	801	804	805	809	814	812	813	815	812
26	821	810	812	815	811	815	817	817	813	808	807	806	811	819	824	827	822	819
27	818	817	817	817	818	818	816	814	808	796	804	816	821	824	825	823	819	817
28	817	816	815	816	817	818	817	817	811	801	812	827	839	838	830	827	829	831
29	829	830	830	832	832	831	834	831	818	822	828	837	837	838	830	824	805	806
30	792	799	809	809	814	815	821	825	825	815	815	815	819	823	822	815	817	816
31	810	808	824	829	826	825	828	829	826	818	821	824	830	836	837	833	822	832
平均 Mean	8076	8084	8125	8136	8147	8162	8195	8218	8205	8144	8127	8134	8155	8168	8174	8147	8108	0

DECEMBER, 1897.

MAGNETIC DECLINATION.

P. M. 7	8	9	10	11	夜半 M. N.	平均 Mean	最大 Maximum		最小 Minimum		較差 Range	記事 Remarks
								h m		h m		
32.8	32.8	33.1	32.2	32.2	31.9	32.35	33.7	2 00p	31.0	10 00a	2.7	A
32.2	32.7	32.5	32.5	32.2	32.7	32.34	33.4	3 00p	31.2	2 00a	2.2	A
32.2	32.4	32.5	32.4	32.2	32.4	32.18	33.5	0 35p	30.7	8 35a	2.8	C
32.2	32.4	32.2	31.8	32.2	32.4	32.31	33.7	0 20p	30.4	9 25p	3.3	C morning, A afternoon
31.5	31.3	31.6	31.5	29.9	30.9	31.72	32.8	7 00a	29.9	11 00p	2.9	C morning, A afternoon
31.6	31.5	31.9	31.2	30.7	31.0	31.55	33.1	1 30p	29.9	10 00a	3.2	A
31.6	30.9	31.5	31.5	31.3	31.3	31.70	33.2	1 00p	30.7	10 00a	2.5	C
31.3	31.6	31.6	3.19	31.0	31.2	31.35	32.7	0 30p	29.7	10 05a	3.0	C
31.3	31.2	31.8	30.9	30.9	31.3	31.32	32.7	1 00p	29.4	9 00a	3.3	C
32.4	33.2	32.5	32.2	31.6	31.3	31.72	33.4	1 00p	29.9	9 45a	3.5	C
34.1	38.2	35.2	34.0	33.7	32.8	32.22	40.0	8 07p	26.0	2 25p	14.0	C morning, S afternoon
34.3	33.1	32.4	32.1	33.4	33.1	32.81	34 3	7 00p	30 9	3 00a	3.4	A
32.5	32.7	32.5	32.4	32.4	32.2	32.40	33.7	0 30p	31.3	9 00a	2.4	C
32.1	32.2	32.5	32.9	32.8	32.5	32.30	34.1	1 00p	29.7	9 20a	4.4	C
31.3	31.3	31.3	31.2	31.0	31.6	31.54	33.1	3 40a	29.1	9 20a	4.0	C morning, A afternoon
32.1	31.9	31.9	31.5	31.9	31.9	31.93	34.1	Noon	30.2	5 50p	3.9	A
32.1	31.9	31.8	32.1	32.1	32.1	31.91	33.7	1 00p	30.2	9 00a	3.5	C
32.2	31.9	32.1	31.3	32.2	31.8	32.57	33.8	Noon	31.3	10 00p	2.5	A morning, C afternoon
31.6	31.9	31.8	31.3	31.5	31.6	32.08	35.0	1 00p	30.4	9 50a	4.6	C
30.4	31.0	29.9	30.7	31.9	29.7	31.13	32.8	11 50p	29.3	10 00a	3.5	C, S late at night
31.8	31.2	31.8	32.2	32.4	32.5	32 80	36.8	6 10a	28.1	1 15a	8.7	S morning, A afternoon
31.6	31.2	32.1	31.2	31.6	32.2	32.18	34.3	2 20a	30.9	5 00p	3.4	A
30.4	32.1	32.1	32.2	32.2	32.1	32.22	33.5	0 50p	30.4	7 00p	3.1	A early in morning, C
31.6	32.8	32.4	32.2	31.9	32.1	32.18	34.1	0 50p	29.9	6 35p	4.2	C
32.1	32.5	32.1	32.1	32.1	32.2	32.16	33.4	2 00p	30.7	9 00a	2.7	C
32.1	32.2	32.2	32.1	32.2	32.1	31.96	33.2	1 30p	30.2	10 00a	3.0	C
32.1	32.1	32.2	32.1	31.9	31.9	31.96	33.1	1 00p	30.0	8 30p	3.1	C
31.0	31.3	31.0	31.0	31.6	31.6	31.65	33.8	0 50p	29.7	8 45a	4.1	C
31.5	33.4	32.8	31.2	31.9	31.6	31.97	33.8	7 40p	29.7	8 30a	4.1	C morning, A afternoon
31.9	31.6	31.0	31.6	32.1	32.4	32.30	35.2	Noon	30.7	9 40p	4.5	A
32.4	31.8	30.9	31.3	30.7	30.7	32.04	...	...	...	...	...	A
31.95	32.20	32.04	31.83	31.86	31.84	32.03	33.93		30.05		3.88	

HORIZONTAL MAGNETIC INTENSITY.

								h m		h m		
802	797	791	803	807	811	8220	845	9 00a	791	9 00p	0³ 54	C morning, A afternoon
804	805	805	815	812	817	8142	829	8 00a	804	7 00p	25	C morning, A afternoon
815	815	813	713	822	820	8202	829	3 00p	811	3 00a	18	C
816	815	812	812	816	817	8221	836	3 10p	800	6 00p	36	C morning, A afternoon
803	803	807	808	821	815	8177	839	9 00a	802	4 35p	37	C morning, A afternoon
805	810	809	811	828	821	8196	842	8 20a	797	0 45p	45	A Early in morning, C
820	819	823	822	822	823	8239	836	8 00a	813	7 40p	23	C
822	820	820	819	825	827	8250	837	7 00a	818	11 00a	19	C
829	836	835	831	829	835	8315	843	8 00a	789	1 10a	54	C
814	807	794	798	790	796	8305	855	10 00a	789	11 05p	66	C morning, A afternoon
750	718	702	730	741	747	7882	838	11 50a	763	9 10p	165	A morning, S afternoon
742	754	776	791	778	776	7730	804	1 20p	732	6 20p	72	S° morning, A afternoon
795	795	803	801	802	800	7922	803	8 50p	776	11 00a	27	C
802	804	806	804	804	804	7991	807	9 05p	781	10 20a	26	C
805	802	806	806	812	814	8043	814	M.N.	784	4 50p	30	C morning, A afternoon
805	812	807	817	813	814	8107	837	4 35a	777	Noon	60	A
806	810	809	816	823	825	8190	832	9 05a	803	7 10p	29	A
814	819	815	813	810	814	8216	846	6 50a	808	10 50a	38	A morning, C afternoon
820	819	821	823	822	822	8203	829	8 00a	809	11 00a	20	C
857	847	860	801	725	745	8241	860	9 00p	718	11 05p	142	C morning, A afternoon, S night
781	789	784	781	797	817	7700	824	11 50p	700	2 07a	124	S morning, S° afternoon
791	807	792	805	817	802	7972	826	10 40p	779	4 35p	47	S°
815	812	811	809	807	808	8090	821	7 10p	797	2 10p	24	S°
801	807	807	812	815	815	8125	823	8 00a	788	6 15p	35	A
812	808	815	813	814	811	8126	824	5 15a	801	10 00a	23	A
815	816	818	819	818	820	8158	827	4 00p	806	Noon	21	C
814	811	814	815	817	817	8157	825	3 00p	795	10 25a	30	C
829	831	834	833	830	830	8235	842	0 40p	800	9 50a	42	C
796	785	760	786	777	785	8151	839	1 45p	754	9 55p	85	C morning, S° afternoon
812	816	815	813	812	810	8143	825	8 00a	785	0 00a	40	A morning, C afternoon, A late at night
815	797	797	814	806	829	8215	840	2 55p	786	11 25p	54	A morning, S afternoon
8067	8060	8052	8069	8068	8093	8125	8315		7828		0³ 487	

明治三十年十二月

鉛直磁力 0.34.....+

日 Day	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4	5	6
1	341	341	342	344	344	352	348	346	340	339	332	330	336	335	342	341	329	329
2	341	339	339	340	339	340	342	342	341	336	334	339	335	333	334	334	334	337
3	339	338	338	336	339	338	342	340	335	333	331	335	338	342	338	335	334	335
4	336	335	337	339	338	337	331	338	334	334	329	336	332	333	334	335	334	327
5	340	338	337	336	333	336	334	337	337	331	327	329	325	333	333	332	329	333
6	339	342	335	343	342	343	342	343	342	341	333	331	329	333	333	333	331	330
7	337	339	339	342	341	342	344	348	348	344	337	334	335	342	342	339	339	339
8	342	346	350	352	352	349	353	350	346	341	340	339	337	341	343	341	342	342
9	342	343	342	343	347	350	351	351	345	340	326	334	332	334	338	336	334	336
10	350	352	351	353	352	354	358	359	355	346	338	336	334	328	329	329	331	330
11	319	321	326	326	326	327	333	337	336	337	334	333	332	323	327	323	328	328
12	350	356	357	353	342	352	352	360	356	347	346	347	350	353	355	345	336	335
13	354	353	355	355	357	360	360	358	352	342	334	336	341	343	347	352	354	356
14	352	351	350	351	352	355	355	353	344	345	345	347	349	351	352	350	346	348
15	346	348	349	347	346	351	350	353	339	329	334	347	349	346	338	336	337	350
16	350	350	353	353	349	349	354	358	358	343	340	343	356	360	356	352	352	353
17	356	355	359	356	355	359	356	358	357	346	345	345	347	353	354	346	344	345
18	353	349	353	349	359	360	362	360	359	352	342	349	358	362	362	362	358	457
19	355	356	356	356	354	354	355	354	353	342	338	350	355	358	357	360	352	351
20	357	356	351	353	350	348	352	353	350	344	345	348	348	355	355	356	360	357
21	325	338	359	366	365	365	373	361	364	349	349	348	356	363	359	366	361	357
22	349	352	357	350	351	356	362	363	362	354	352	363	355	357	359	355	356	357
23	356	355	356	357	355	353	362	360	360	358	355	356	358	354	357	362	367	363
24	352	357	361	360	358	361	362	361	353	347	349	356	357	360	358	361	353	350
25	355	355	354	352	359	356	359	357	348	341	354	340	346	349	349	351	347	348
26	351	348	347	348	348	353	354	357	356	348	344	344	349	355	359	357	353	348
27	348	347	346	346	351	352	354	354	345	340	345	353	349	351	352	351	347	346
28	346	344	344	345	348	350	350	350	340	337	347	360	362	362	352	346	347	351
29	345	346	350	350	349	347	349	347	343	340	345	348	350	347	349	342	336	340
30	353	356	359	352	356	354	358	360	351	353	358	361	361	357	350	346	346	349
31	351	351	361	364	354	352	357	358	354	353	349	346	353	353	353	349	339	344
平均 Mean	346	3470	3488	3489	3487	3502	3521	3525	3485	3430	3412	3439	3456	3473	3473	3459	3437	3442

空中電氣

1	53	56	67	75	122	181	207	211	146	66	35	22	47	48	51	54	164	163
2	100	86	80	74	148	228	276	...	...	235	136	82	80	54	66	63	63	148
3	202	164	159	169	174	214	240	259	256	186	143	113	+	+	+	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	42	74	132
7	181	164	146	133	132	149	141	204	190	207	200	179	130	31	42	53	68	121
8	101	107	106	110	141	145	182	202	187	200	169	135	135	117	90	85	59	163
9	104	92	80	86	101	146	193	150	141	118	116	110	111	88	78	107	106	192
10	212	214	208	198	198	192	215	192	206	179	169	89	27	58	37	36	65	95
11	47	45	48	35	53	89	116	46	33	−27	±	±	30	9	17	21	49	68
12	6	9	−6	78	55	99	108	162	150	51	71	75	55	16	59	49	88	61
13	181	195	177	127	133	177	207	225	229	171	98	82	82	74	86	90	84	115
14	155	172	167	144	180	205	217	222	218	211	171	188	111	77	64	58	81	115
15	64	47	48	54	54	134	173	222	195	154	131	66	45	37	25	27	56	58
16	60	52	53	59	73	86	136	169	146	82	60	58	20	33	4	36	60	177
17	125	113	124	117	143	195	+	+	+	187	96	77	52	23	48	34	78	139
18	147	155	178	178	181	202	230	254	214	168	87	69	62	32	39	53	91	110
19	182	123	114	136	130	201	151	234	192	117	88	57	...	42	52	19	117	107
20	112	99	98	101	104	166	196	196	176	101	65	64	...	68	72	77	101	143
21	90	123	146	92	109	142	113	98	99	74	49	47	29	24	38	39	59	108
22	82	67	70	79	92	151	190	230	205	85	62	43	53	16	26	46	62	115
23	164	176	164	151	125	176	...	...	...	...	161	107	102	99	53	76	85	109
24	148	148	139	124	112	191	235	271	198	122	86	82	66	33	26	46	76	106
25	73	104	87	73	96	126	109	195	146	76	46	35	35	19	15	−7	30	93
26	80	68	66	68	71	91	183	133	206	183	123	126	+	±	30	56	63	76
27	127	120	123	97	72	95	125	120	77	−	−	−	...	...	...	...	40	41
28	56	55	61	45	46	58	73	...	...	...	...	...	13	5	30	56	120	96
29	113	103	80	87	103	105	120	163	127	63	55	42	54	3	−23	−3	42	31
30	73	63	60	90	140	219	277	210	327	237	162	97	62	58	40	50	110	164
31	199	157	114	107	109	112	141	134	122	131	132	111	72	59	59	52	60	60
平均 Mean	114.9	109.9	105.6	103.1	114.2	152.7	175.1	187.6	174.4	135.1	108.4	88.2	64.0	44.9	42.1	48.5	76.8	110.9

DECEMBER, 1897.

P. M.					夜半	平均	最大		最小		較差	記事
7	8	9	10	11	M. N.	Mean	Maximum		Minimum		Range	Remarks

VERTICAL MAGNETIC INTENSITY.

								h m		h m		
332	334	335	343	345	344	3393	352	6 00a	324	5 20p	.03 28	C morning, A afternoon
335	338	342	344	342	341	3384	344	10 00p	332	4 50p	12	C morning, A afternoon
334	335	334	335	339	336	3366	342	2 00p	331	11 00a	11	C
334	334	335	335	340	339	3348	340	11 00p	327	6 00p	13	C morning, A afternoon
331	334	336	337	341	339	3341	341	11 00p	325	1 00p	16	C morning, A afternoon
335	338	339	339	344	339	3375	344	11 00p	329	1 00p	15	A early in morning, C
340	341	345	343	344	342	3411	349	8 30a	334	Noon	15	C
341	340	341	340	343	341	3438	353	7 00a	337	1 00p	16	C
337	342	342	343	345	346	3408	353	7 30a	326	11 00a	27	C
327	325	320	321	320	325	3385	361	7 50a	319	9 10p	42	C morning, A afternoon
333	336	342	350	354	352	3326	359	10 50p	294	8 20p	65	A morning, S afternoon
343	350	358	363	354	350	3504	364	10 15p	334	5 20p	30	S° morning, A afternoon
356	356	357	355	355	352	3517	360	6 00a	334	11 00a	26	C
348	348	348	349	349	344	2492	355	7 00a	344	9 00a	11	C
×	×	×	351	354	353	3454	354	11 00p	329	10 00a	25	C
354	362	358	363	360	357	3535	363	10 00p	340	11 00a	23	A
346	352	353	356	355	355	3522	359	6 00a	344	5 00p	15	C
357	360	359	360	357	361	2567	362	3 00p	342	11 00a	20	A morning, C afternoon
352	352	354	355	355	356	3533	360	4 00p	338	11 00a	22	C
356	355	353	333	319	343	3499	360	5 00p	319	11 00p	41	C morning, A afternoon, S night
358	360	359	358	365	372	3582	373	7 00a	322	0 50a	51	S morning, S° afternoon
357	362	355	362	363	355	3568	366	10 45p	349	1 00a	17	S°
362	365	363	361	357	355	3586	367	5 00p	353	6 00a	14	A
358	356	357	359	359	360	3569	362	7 00a	347	10 00a	15	C
349	349	354	352	352	351	3511	359	7 00a	340	Noon	19	C
345	349	356	354	351	354	3512	359	3 00p	344	11 00a	15	C
346	347	347	351	353	348	3487	355	7 40a	340	10 00a	15	C
351	355	355	355	350	347	3497	364	0 40p	336	9 25a	28	C
338	337	336	335	347	354	3445	354	M.N.	335	10 00p	19	C morning, S° afternoon
349	352	353	353	350	353	3537	361	Noon	346	5 00p	15	A morning, C afternoon, A late at night
343	338	342	358	349	360	3513	364	4 00a	336	7 50p	28	A morning, S afternoon
3449	3467	3476	3488	3487	3492	3471	3567		3339		.03 229	

ATMOSPHERIC ELECTRICITY.

								h m		h m		
192	221	197	127	96	75	111.5	262	8 20p	−33	11 55a	295	—
242	228	235	221	188	162	145.2	275	7 30a	38	4 36p	237	—
...	...	...	...	...	...	106.6	...	...	...	...	...	≡5.50p–7.30p
...	...	...	...	...	...	...	...	...	...	...	...	≡°7.40a–8.15a ◁ S7.p
...	...	...	...	...	...	...	...	...	...	...	...	—
66	130	202	256	228	216	135.9	...	...	...	...	...	≡°6.30a–8.15a
163	110	167	178	141	114	139.3	221	9 45p	24	4 35p	197	—
161	154	182	179	140	119	140.4	219	5 25a	−76	4 10p	295	●°4.00p–4.25p●°240p–2.50p
171	137	154	152	158	173	127.7	>212	10 50p	68	2 45p	>144	≡² 9.30p–≡10.20p–
53	112	89	82	43	42	125.5	>219	7 30a	8	3 36p	>211	–≡–≡² 0.50a–≡2.50a–4.30a
62	38	38	30	54	24	42.0	138	6 40a	−75	Noon	213	●°0.50a–1.20a△°10.a–1.05p
102	147	181	165	196	182	90.0	>208	11 50p	−10	3 15a	>218	△°4.a–4.05a △°8.30a–8.55a
141	185	179	218	177	142	149.0	231	8 30a	68	11 15a	163	..
118	139	152	171	129	93	148.2	>217	7 00a	55	3 35p	>162	..
58	55	55	35	34	39	77.7	>224	7 30a	18	2 15p	>206	—
159	149	167	132	144	106	92.5	>202	6 30p	−3	3 00p	>205	.
186	237	180	154	165	142	124.5	>261	6 p-9p	19	1 50p	>242	△°7.30p
117	105	105	130	172	151	134.6	296	6 30a	16	8 20p	280	—
169	234	153	253	175	128	133.4	328	7 45a	−10	4 25p	338	—
143	142	114	109	106	95	115.1	243	6 25a	49	11 05a	194	◁E 1.a–3.a
124	119	130	154	135	108	93.7	177	10 52a	16	4 05p	161	.
197	134	115	161	226	134	110.0	256	7 55a	−7	2 25p	263	.
227	207	137	153	237	169	143.8	...	...	...	...	...	
63	76	89	101	120	106	115.2	297	7 55a	0	3 30p	297	.
139	127	111	142	126	86	86.7	205	8 25a	−20	3 52p	225	
70	46	60	110	130	128	98.5	232	8 50a	<−189	2 20p	>421	..
46	51	59	43	61	66	80.2	...	...	...	...	...	/
95	86	93	108	83	96	67.1	...	...	...	...	...	△°6.25a△°7.16a–7.25a△°8.10a–8.25a✳°1055a–11a
29	67	52	55	68	73	66.8	>190	7 50a	<−25	2 p-4p	>215	.. ◁EJ100p–M.N.
122	137	90	105	157	139	132.9	>367	7a-9a	30	3 00p	>337	..
90	107	114	102	102	107	105.5	218	1 25a	49	3 35p	>169	—
125.2	131.7	128.6	136.6	135.4	114.8	113.7						

年

Hour / Month	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4
一月 Jan.	29′53	29′40	29′34	29′40	29′59	29′60	29′40	28′49	28′45	29′18	30′84	31′70	31′68	30′96	29′98	29′38
二月 Feb.	28.21	27.99	28.16	28.12	28.21	28.33	28.37	27.40	26.63	26.99	28.31	29.66	30.30	30.12	29.45	28.67
三月 Mar.	28.95	28.79	28·98	29.04	29.21	29.42	28.90	27.74	26.81	27.28	29.26	31.47	32.19	32.16	31.47	30.33
四月 Apr.	29.27	29.14	29.13	29.11	29.25	29.19	28.27	27.27	27.24	28.62	30.65	32.21	33.63	33.47	32.54	31.46
五月 May	28.93	28.75	28.59	28.39	27.96	27.26	26.68	26.90	28.04	30.22	31.42	32.30	32.66	32.22	31.23	30.59
六月 June	26.74	26.51	26.34	26.19	25.56	24.57	24.06	24.29	25.40	27.28	28.86	29.88	30.42	30.28	29.50	28.72
七月 July	29.29	29.06	28.87	28.77	28.08	27.23	26.81	27.12	28.11	29.66	31.08	32.25	32.70	32.61	32.01	31.12
八月 Aug.	29.12	28.92	28.65	28.53	28.23	27.37	27.14	27.40	28.76	30.55	32.05	32.87	33.01	32.49	31.55	30.38
九月 Sept.	29.04	28.84	28.62	28.52	28.29	27.57	27.53	27.90	29.22	31.10	32.53	32.93	32.76	31.72	30.47	29.56
十月 Oct.	30.57	30.53	30.47	30.47	30.64	30.78	30.26	29.90	30.13	31.09	32.38	33.15	33.08	32.35	31.63	31.13
十一月 Nov.	31.61	31.51	31.43	31.53	31.64	31.74	31.68	31.26	31.23	31.80	32.53	33.09	33.03	32.61	32.09	31.61
十二月 Dec.	31.88	31.89	31.96	32.12	32.08	32.25	32.36	31.58	31.05	31.27	32.16	33.15	33.25	32.80	32.19	31.64
全年 Annual	29.43	29.27	29.21	29.18	29.06	28.78	28 5	28.10	28.42	29.59	31.01	32.05	32.23	31.98	32.18	30.38

偏角 +W0°

水平磁力 0.29.....+

Hour / Month	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4
一月 Jan.	7919	7930	7958	7969	7992	8006	8026	8007	7900	7826	7853	7914	7964	7994	8018	8013
二月 Feb.	8077	8087	8102	8099	8121	8123	8162	8169	8152	8112	8046	8038	8058	8072	8091	8108
三月 Mar.	8202	8212	8202	8204	8205	8226	8260	8229	8178	8121	8061	8083	8144	8219	8241	8216
四月 Apr.	8100	8103	8120	8116	8118	8170	8161	8093	7996	7950	7947	8015	8085	8140	8163	8127
五月 May	8130	8145	8175	8182	8174	8137	8073	8007	7984	8006	8097	8187	8221	8215	8201	8136
六月 June	8277	8276	8279	8283	8300	8299	8249	8194	8168	8177	8215	8273	8303	8291	8304	8281
七月 July	8378	8378	8369	8374	8382	8365	8313	8272	8220	8257	8332	8368	8387	8397	8377	8350
八月 Aug.	8290	8296	3295	8295	8299	8275	8201	8132	8109	8149	8207	8275	8318	8347	8365	8335
九月 Sept.	8116	8125	8126	8129	8122	8105	8047	7964	7909	7949	8012	8102	8176	8230	8225	8176
十月 Oct.	8284	8275	8274	8283	8235	8241	8226	8175	8149	8163	8215	8283	8345	8375	8361	8330
十一月 Nov.	8151	8159	8161	8165	8179	8176	8183	8167	8138	8119	8143	8177	8215	8239	8232	8207
十二月 Dec.	8076	8084	8125	8136	8147	8162	8195	8218	8205	8144	8127	8134	8155	8168	8174	8147
全年 Annual	8166	8172	8082	8186	8189	8190	8175	8136	8092	8081	8105	8154	8198	8224	8229	8202

鉛直磁力 0.34.....+

Hour / Month	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4
一月 Jan.	3635	3637	3647	3649	3653	3664	3673	3628	3541	3523	3575	3637	3683	3691	3676	3657
二月 Feb.	3744	3744	3757	3755	3762	3780	3799	3782	3725	3660	3611	3641	3689	3744	3757	3770
三月 Mar.	3667	3671	3667	3668	3672	3707	3729	2681	3592	3475	3420	3481	3576	3656	3690	3694
四月 Apr.	3460	3449	3454	3443	3463	3489	3467	3404	3303	3235	3238	3286	3350	3397	3420	3426
五月 May.	3662	3661	3674	3677	3687	3661	3603	3552	3501	3450	3491	3560	3580	3595	3603	3605
六月 June	4026	4024	4025	4036	4050	4027	3971	3906	3885	3855	3882	3938	3954	3972	3981	3986
七月 July	3546	3546	3549	3559	3564	3546	3496	3454	3403	3413	3447	3459	3477	3490	3509	3506
八月 Aug.	3615	3623	3624	3626	3632	3616	3574	3518	3451	3476	3515	3562	3583	3591	3586	3575
九月 Sept.	3441	3445	3445	3445	3439	3430	3394	3351	3316	3326	3372	3408	3441	3453	3437	3403
十月 Oct.	3546	3538	3536	3516	3486	3499	3495	3460	3423	3403	3421	3474	3503	3551	3544	3528
十一月 Nov.	3306	3300	3292	3285	3284	3294	3287	3267	3226	3205	3216	3241	3279	3321	3335	3335
十二月 Dec.	3461	3370	3488	3489	3487	3502	3521	3525	3485	3430	3412	3439	3456	3473	3473	3459
全年 Annual	3592	3592	3597	3596	3598	3601	3584	3544	3487	3454	3467	35 0	3548	3578	3584	3579

空中電氣

Hour / Month	午前 A. M. 1	2	3	4	5	6	7	8	9	10	11	正午 Noon	午後 1	2	3	4
一月 Jan.	90,8	85.6	79.7	78.9	101.1	123.0	154.0	170.5	132.5	92.8	67.7	55.0	56.0	47.1	47.5	55.1
二月 Feb.	84.8	83.6	74.5	85.6	96.1	109.5	124.9	142.3	93.7	59.7	44.4	22.7	34.1	29.2	36.3	42.5
三月 Mar.	65.5	70.6	69·8	62.2	65.8	91.6	103.7	76.9	33.1	19.1	21.2	25.0	22.5	16.6	12.5	16.6
四月 Apr.	53.8	51.0	54.1	59.8	80.5	119.0	103.0	71.0	54.2	32.2	28.9	28.0	16.0	8.3	5.0	8 4
五月 May.	27.7	29.0	32.9	32.0	54.0	73.3	70.0	36.7	25.2	13.8	8.5	9.0	5.3	4.0	4.0	7.1
六月 June	26.1	25.7	24.0	25.6	41.2	48.6	39.4	26.2	16.6	10.7	6.8	5.5	3.5	5.0	6.7	10.0
七月 July	10.3	9.6	10.1	14.7	16.1	21.0	17.2	13.9	8.4	6.2	5.5	5.0	4.9	3.7	4.2	4.9
八月 Aug.	7.2	7.1	7.3	8.4	11.2	13.7	12.7	9.3	6.6	4.5	4.1	3.9	3.3	3.1	2.8	3.5
九月 Sept.	14.0	12.5	11.9	13.2	14.2	18.1	18.7	13.7	8.0	4.7	4.2	5.0	3.5	2.3	3.0	4.6
十月 Oct.	56.9	55.3	57.5	60.6	71.8	89.9	102.2	83.5	56.8	39.8	32.2	25.4	28.0	26.7	27.1	30.7
十一月 Nov.	66.7	66.8	60.9	63.0	72.0	92.5	107.2	99.7	76.4	57.7	47.9	42.6	40.1	38.8	39.0	44.9
十二月 Dec.	114.9	109.9	105.6	103.1	114.2	152.7	175.1	187.6	174.4	135.1	108.4	88.2	64.0	44.9	42.1	48.5
全年 Annual	51.6	50.6	49.0	50.6	61.5	79.4	85.7	77.6	57.2	39.7	31.6	26.3	23.4	19.1	19.2	23.1

YEAR.

P. M.							平均	平均 Mean.			絕對 Absolute.				
5	6	7	8	9	10	11	M. N.	Mean	最大 Max.	最小 Min.	較差 Range	最大 Max.	日 Day	最小 Min.	日 Day	較差 Range

MAGNETIC DECLINATION.

29′35	29′46	29′64	29′45	29′59	29′53	29′53	29′54	29′71	32′28	27′74	4′54	34.6	3	26.0	3	8.6
28.42	28 46	28.64	28.70	28.36	28.45	28.25	28.32	28.43	30.49	26 16	4.33	32.9	28	24.0	10,24	8.9
29.43	29.50	29.69	29.44	29.38	29.29	29.08	28.92	29 43	32.58	26.51	6.07	34.3	5	23.2	8	11.1
30.26	30.03	30.15	30.08	29.97	29.88	29.76	29.63	30.01	34.00	26.43	7.57	37.6	2	23.3	4	14.3
29.77	29.21	29.57	29.64	29.58	29.39	29.44	29.08	29.50	33.04	25.93	7.11	35 7	22	24.4	6	11.3
27.89	27.31	27.50	27.80	27.41	27.34	27.30	27.03	27.20	30.88	23.57	7.31	35.4	17	22.0	14	13.4
30.28	29.84	30.00	30.12	29.99	29.85	29.66	29.51	29.76	33.34	26.40	6.94	37.0	31	24.8	19	12.2
29.57	29.34	29.68	29.84	29.83	29.81	29.64	29.48	29.70	33.39	26.59	6.80	35.6	29	24.5	23	11.1
29.30	29.88	29.86	29.82	29.96	29.87	29.73	29.31	29.80	33.36	26.94	6.42	36.5	12	23.9	14	12.6
31.09	31.13	31.22	31.18	31.26	30.94	30.95	30.75	31.14	33.42	29.23	4.18	35.6	2	27.8	24	7.8
31.76	31.79	31.91	32.00	31.95	31.91	31.59	31.56	31.87	33.53	30.28	3.25	35.2	25	27.2	1	8.0
31.51	31.79	31 95	32.20	32.04	31.83	31.86	31.84	32.03	33.93	30.05	3.88	40.0	11	26.0	11	14.0
29.89	29.81	29.98	29.98	29.94	29.84	29.73	29.58	29.88	32.85	27.15	5.70	35.87		24.76		11.11

HORIZONTAL MAGNETIC INTENSITY.

7986	7951	7932	7941	7927	7905	7904	7925	7948	8136	7665	.08 471	869	29	659	2	.02 210
8088	8047	8023	8023	8046	8047	8062	8095	8087	8255	7905	350	844	19	754	4	090
8195	8161	8171	8185	8188	8186	8203	8215	8188	8075	7740	335	860	13	754	5	106
8092	8029	8027	8009	8031	8040	8035	8058	8072	8309	7796	513	885	20	712	20	173
8091	8087	8087	8110	8100	8103	8086	8125	8121	8326	7850	476	882	30	748	21	134
8234	8251	8210	8237	8241	8253	8262	8282	8258	8420	8050	369	879	16	732	17	147
8305	8301	8306	8321	8337	8335	8338	8353	8339	8501	8119	381	874	11	727	31	147
8293	8275	8268	8272	8294	8298	8305	8307	8272	8441	8052	388	893	9	769	20	124
8112	8070	8064	8066	8067	8081	8083	8100	8091	8305	7851	454	853	27	762	14	091
8290	8274	8248	8231	8234	8290	8278	8274	8264	8447	8082	365	864	17	765	11	099
8172	8156	8147	8157	8165	8161	8172	8174	8171	8309	8005	304	851	5	768	18	083
8108	8089	8067	8060	8052	8069	8068	8093	8125	8316	7828	487	860	20	673	11	187
8164	8140	8129	8134	8140	8147	8150	8167	8161	8320	7912	.03407	8678		7352		.021327

VERTICAL MAGNETIC INTENSITY.

3643	3607	3649	3665	3669	3657	3661	3664	3639	3759	3513	.03 246	398	29	327	7	.02 071
3766	3757	3760	3769	3781	3780	3782	3777	3742	3883	3630	253	419	15	317	28	102
3678	3664	3690	3705	3712	3717	3710	3707	3651	3771	3404	367	397	13	306	1	091
3427	3405	3427	3438	3459	3463	3457	3457	3409	3536	3187	348	372	25	281	6	091
3600	3611	3584	3598	3602	3603	3602	3663	3598	3734	3425	310	389	4	308	18	081
3993	4014	3966	3983	3974	3980	3981	4018	3975	4110	3823	287	440	18	353	1	087
3501	3504	3501	3522	3530	3524	3529	3547	3502	3607	3362	245	402	2	301	28	101
3574	3571	3576	3594	3615	3626	3624	3631	3583	3692	3425	266	391	7	311	1	080
3383	3362	3372	3384	3391	3394	3398	3432	3404	3493	3294	198	359	25	313	1	046
3532	3546	3547	3545	3553	3562	3554	3526	3512	3634	3379	255	392	31	311	11	081
3336	3335	3343	3355	3360	3350	3347	3306	3300	3410	3173	237	362	18	300	30	062
3437	3442	3449	3467	3476	3488	3487	3492	3471	3567	3339	229	373	21	294	11	079
3572	3568	3572	3585	3593	3595	3594	3602	3565	3683	3413	.03270	3912		3102		.02081

ATMOSPHERIC ELECTRICITY.

70.5	82.5	88.2	99.9	108.2	102.2	101.9	95.5	91.0				>530	22	−320	31	>850
56.2	69.9	74.1	93.8	91.7	97.5	89.7	87.9	75.9				332	5	−277	7	609
26.1	32.9	45.5	53.6	63.7	67.5	72.4	61.9	49.8				344	25	<−219	19	>563
14.8	22.2	27.9	39.5	46.8	49.6	52.8	53.6	45.1				368	1	−295	28	663
8.1	10.3	11.7	19.3	17.9	17.1	19.6	22.1	23.4				>456	3	<−417	3	>873
11.1	13.4	17.1	18.8	23.5	21.9	21.4	21.0	19.6				>335	23	<−290	24	>625
6.4	8.1	9.5	10.6	11.4	10.8	10.7	10.4	9.5				>159	14	<−116	14	>275
3.9	6.5	7.3	8.0	9.1	7.6	7.6	7.8	6.9				>157	28	<−126	28	>283
5.2	8.1	12.2	13.1	12.6	13.8	14.2	14.2	10.5				190	14	−197	14	387
41.4	53.5	65.3	69.0	71.2	70.2	67.3	60.8	56.1				198	21, 30	<−127	31	>325
50.8	64.5	69 8	73.7	69.8	74.4	68.2	66.0	64.5				267	14	<−148	17	>415
76.8	110.9	125.2	131.7	128.6	136.6	135.4	114.8	112.8				>367	30	<−189	26	>556
30.9	40.2	46.1	52.6	54.5	55.8	55.1	51.3	47.2								

VALUES OF THE COEFFICIENTS IN THE PERIODICAL EXPRESSION

週期函數ニ於ル係數ノ値

$$f(t)=p_0+p_1cos\ t+q_1sin\ t+p_2cos2t+q_2sin2t+p_3cos3t+q_3sin3t+p_4cos4t+q_4sin4t$$

in which t is the Central Standard Mean Time (mean time of the meridian 135°E) converted into arc, and $f(t)$ the mean value of the magnetic element at the time t for each month and for the year.

The values of the Coefficients for Declination are given in degrees and minutes of arc and those for Horizontal and Vertical Intensities in 0.000001 C. G. S. units.

式中 t ハ中央標準時ヲ角度ニテ表ハシタルモノ $f(t)$ ハ磁氣要素ノ t 時ニ於ル各月及年ノ平均値ヲ示ス

係數ノ値ハ偏角ニ於テハ度分ニテ水平及鉛直磁力ニ於テハ 0.000001 C. G. S. 單位ニテ測ル

月 Month ＼ Coefficient 係數	p_0	p_1	q_1	p_2	q_2	p_3	q_3	p_4	q_4
偏　角　MAGNETIC DECLINATION.									
一月 Jan.	4° 29′.71	− 0′.47	− 0′.26	+ 0′.54	+ 0′.32	− 0′.52	− 0′.33	+ 0′.40	+ 0′.13
二月 Feb.	28.43	− 0.27	− 0.55	+ 0.23	+ 0.53	− 0.33	− 0.56	+ 0.28	+ 0.31
三月 Mar.	29.43	− 0.55	− 0.89	+ 0.33	+ 0.95	− 0.49	− 0.86	+ 0.33	+ 0.36
四月 Apr.	30.01	− 0.86	− 1.34	+ 0.74	+ 1.05	− 0.57	− 0.79	+ 0.27	+ 0.17
五月 May	29.50	− 1.06	− 1.29	+ 1.23	+ 0.55	− 0.65	− 0.13	+ 0.05	− 0.13
六月 June	27.20	− 0.95	− 1.60	+ 1.22	+ 0.77	− 0.58	− 0.18	− 0.03	− 0.15
七月 July	29.76	− 0.89	− 1.53	+ 1.06	+ 0.68	− 0.54	− 0.19	− 0.03	− 0.05
八月 Aug.	29.70	− 1.16	− 1.17	+ 1.37	+ 0.39	− 0.67	− 0.16	+ 0.05	− 0.08
九月 Sept.	29.80	− 1.12	− 0.92	+ 1.29	+ 0.02	− 0.77	+ 0.04	+ 0.19	− 0.10
十月 Oct.	31.14	− 0.62	− 0.51	+ 0.53	+ 0.18	− 0.51	− 0.23	+ 0.30	+ 0.03
十一月 Nov.	31.87	− 0.36	− 0.23	+ 0.28	+ 0.06	− 0.33	− 0.19	+ 0.19	+ 0.09
十二月 Dec.	32.03	− 0.17	− 0.05	+ 0.18	+ 0.22	− 0.35	− 0.35	+ 0.22	+ 0.25
全年 Annual	29.88	− 0.69	− 0.86	+ 0.74	+ 0.47	− 0.52	− 0.32	+ 0.18	+ 0.05
水平磁力　HORIZONTAL MAGNETIC INTENSITY.									
一月 Jan.	0.297948	− 6.0	+ 1.1	− 42.8	+ 34.9	+ 1.74	− 33.2	− 1.1	+ 19.0
二月 Feb.	8087	− 10.4	+ 40.4	− 17.4	+ 2.8	+ 3.16	− 2.7	− 10.7	− 0.9
三月 Mar.	8188	+ 25.5	+ 8.0	− 27.4	+ 17.9	+ 3.38	+ 2.2	− 15.8	+ 16.7
四月 Apr.	8072	+ 8.9	+ 18.4	− 31.8	+ 59.1	+ 2.44	− 40.7	− 3.7	+ 21.1
五月 May	8121	+ 2.2	− 11.4	+ 16.6	+ 68.3	− 3.46	− 35.2	+ 8.6	+ 8.1
六月 June	8258	+ 12.1	− 1.6	+ 5.1	+ 41.4	− .62	− 27.8	+ 11.8	+ 2.3
七月 July	8339	+ 13.7	− 1.4	+ 16.0	+ 45.2	− 1.81	− 26.6	+ 9.4	+ 5.7
八月 Aug.	8272	+ 27.9	− 44.0	+ 9.3	+ 61.0	− 1.26	− 35.5	+ 8.1	− 4.1
九月 Sept.	8091	+ 9.0	− 36.2	+ 7.4	+ 87.9	− .92	− 45.1	+ 4.7	+ 8.9
十月 Oct.	8264	+ 0.9	− 38.6	+ 15.9	+ 57.5	+ .07	− 29.1	+ 4.5	+ 5.4
十一月 Nov.	8171	− 11.0	− 9.9	+ 0.8	+ 22.7	+ .61	− 25.4	− 1.8	+ 7.2
十二月 Dec.	8125	− 46.9	+ 23.9	− 11.8	+ 7.9	+ 1.97	− 12.5	− 10.7	+ 5.6
全年 Annual	8161	+ 2.0	+ 3.3	− 4.2	+ 42.1	+ 4.5	− 28.3	+ 1.4	+ 7.9
鉛直磁力　VERTICAL MAGNETIC INTENSITY.									
一月 Jan.	0.343639	+ 17.8	− 15.7	− 5.9	+ 23.4	− 2.9	− 39.6	+ 6.0	+ 17.5
二月 Feb.	3742	+ 39.4	− 6.2	− 34.9	+ 2.6	+ 26.2	− 24.1	− 9.2	+ 10.5
三月 Mar.	3651	+ 72.7	− 19.5	− 53.4	+ 14.3	+ 38.4	− 44.6	− 13.7	+ 24.6
四月 Apr.	3409	+ 74.2	− 5.0	− 39.7	+ 26.6	+ 18.4	− 39.8	+ 1.5	+ 17.3
五月 May	3598	+ 56.4	+ 8.6	− 19.2	+ 49.0	− 4.0	− 21.1	+ 12.4	+ 8.7
六月 June	3975	+ 47.4	− 2.1	− 20.3	+ 42.8	− 4.7	− 15.1	+ 14.4	+ 2.8
七月 July	3562	+ 47.9	− 0.6	− 11.0	+ 28.8	− 7.7	− 17.4	+ 7.4	− 0.8
八月 Aug.	3583	+ 49.0	− 7.5	− 0.7	+ 31.3	− 12.0	− 28.8	+ 11.3	+ 1.9
九月 Sept.	3404	+ 17.2	+ 4.9	+ 10.1	+ 42.6	− 9.6	− 22.1	+ 5.2	+ 8.7
十月 Oct.	3512	+ 39.1	− 36.1	− 5.9	+ 22.6	+ 0.9	− 18.2	− 1.6	− 13.4
十一月 Nov.	3300	+ 34.1	− 41.6	− 16.9	+ 8.5	+ 6.0	− 20.6	− 3.9	+ 7.2
十二月 Dec.	3471	+ 13.5	+ 18.5	− 9.2	− 2.5	+ 12.4	− 20.0	− 7.7	+ 9.6
全年 Annual	3565	+ 42.3	− 8.5	− 17.3	+ 24.3	+ 5.1	− 25.9	+ 1.8	+ 10.1

CURVES

OF

DIURNAL VARIATION

OF

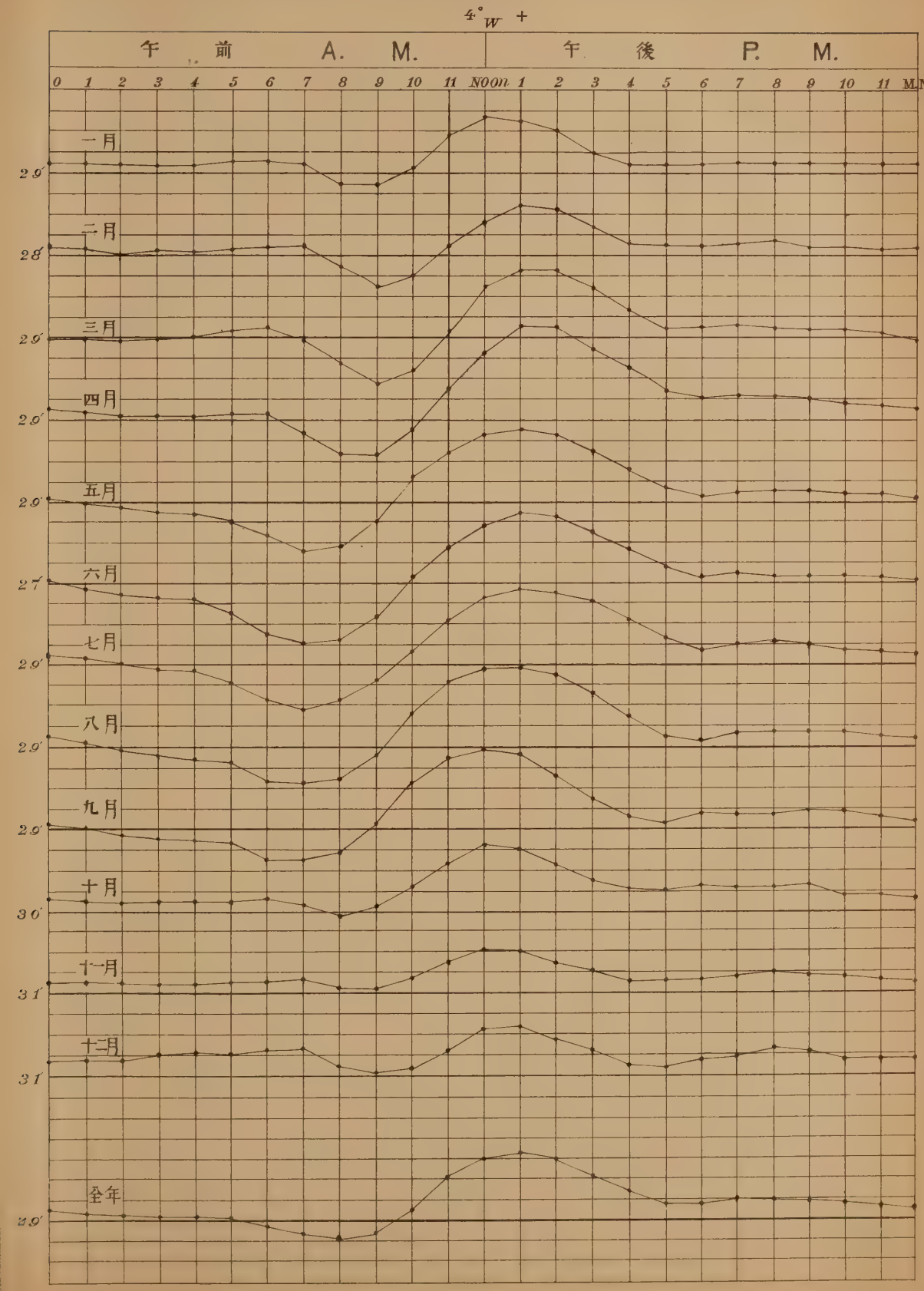
MAGNETIC ELEMENTS

AND

ATMOSPHERIC ELECTRICITY.

一日中偏角ノ變化

DIURNAL VARIATION OF DECLINATION



一日中水平磁力ノ変化

DIURNAL VARIATION OF HORIZONTAL INTENSITY

0.29····· +

午前 A. M. | 午後 P. M.

0 1 2 3 4 5 6 7 8 9 10 11 NOON 1 2 3 4 5 6 7 8 9 10 11 MN.

790 一月 Jan.

805 二月 Feb.

815 三月 Marc

805 四月 Apri

810 五月 May

820 六月 June

825 七月 July

820 八月 Aug

805 九月 Sept

825 十月 Oct.

815 十一月 Nov.

810 十二月 Dec.

815 全年 Yea

1 Div. = 0.00005 C.G.S. Units.

一日中鉛直磁力ノ變化

DIURNAL VARIATION OF VERTICAL INTENSITY

34
0.29·····+

午前 A. M. 午後 P. M.

0 1 2 3 4 5 6 7 8 9 10 11 Noon 1 2 3 4 5 6 7 8 9 10 11 MN.

一月 360 Jan.

二月 370 Feb.

三月 360 March

四月 340 April

五月 355 May

六月 390 June

七月 345 July

八月 355 Aug.

九月 340 Sept.

十月 350 Oct

十一月 325 Nov.

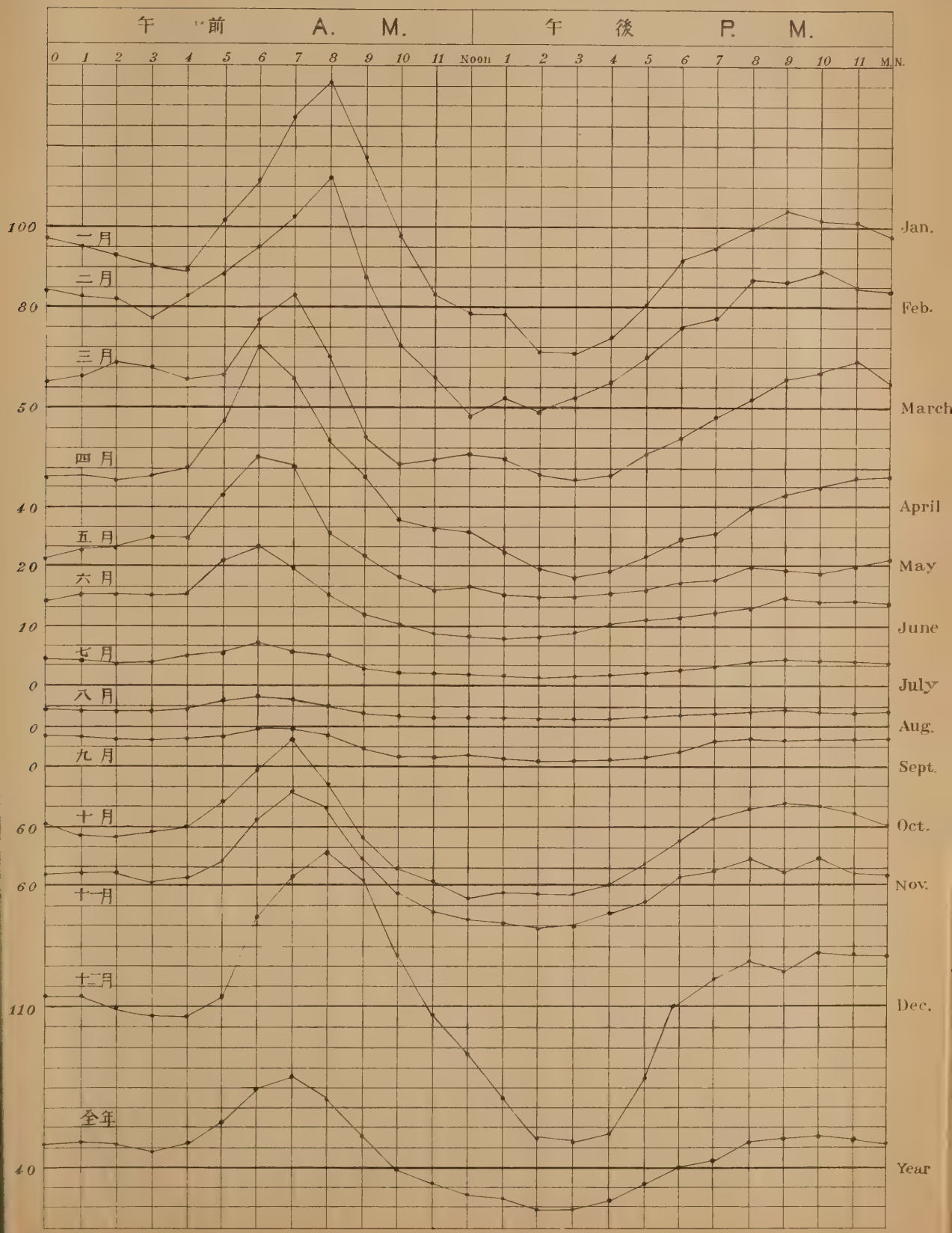
十二月 345 Dec.

全年 350 Year

I Div. = *0.00005* C.G.S. Units.

一日中空中電氣ノ變化

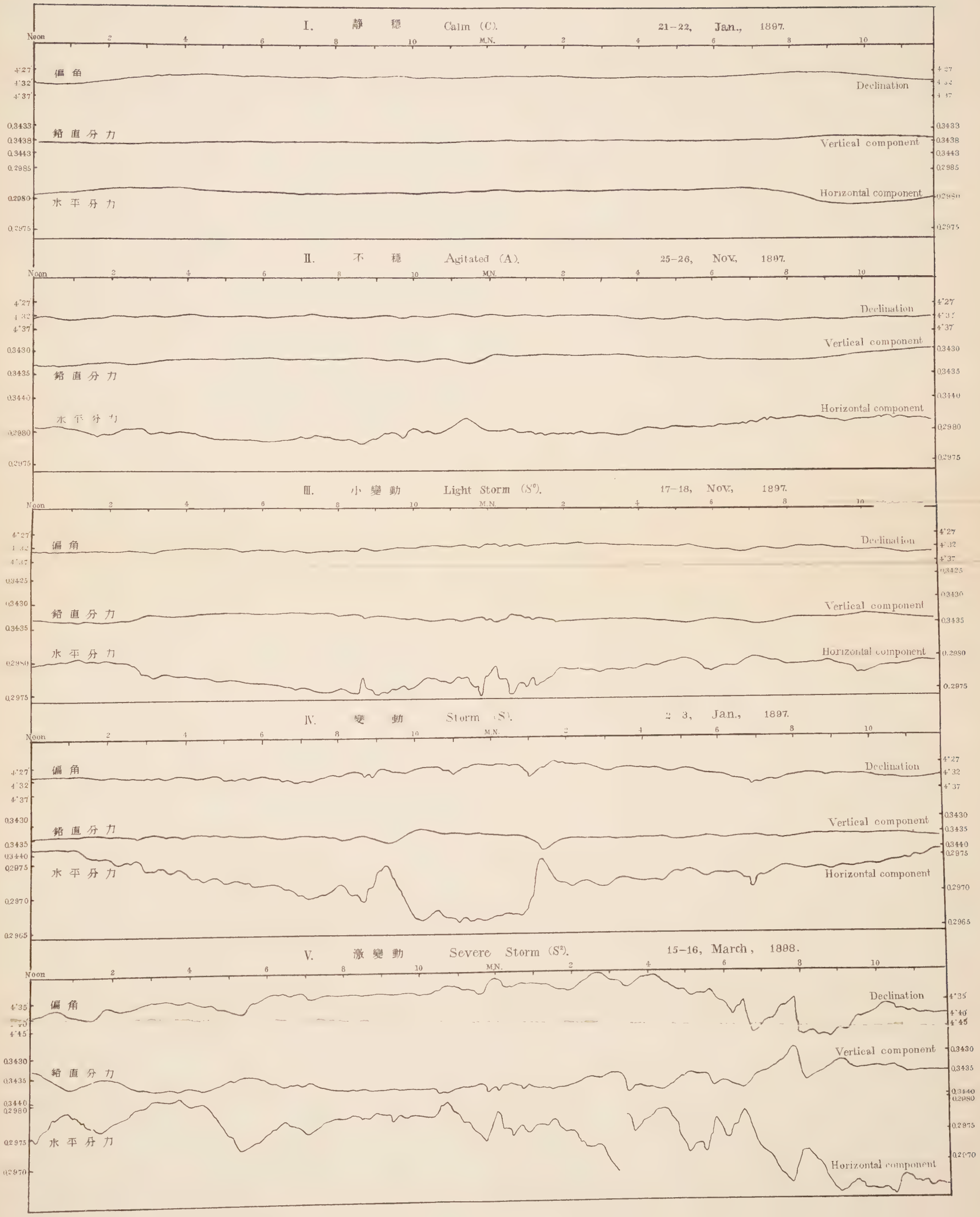
DIURNAL VARIATION OF ATMOSPHERIC ELECTRICITY



1 Div. = 10 Volts.

地球磁氣曲線ノ標式

TYPES OF MAGNETIC CURVES.

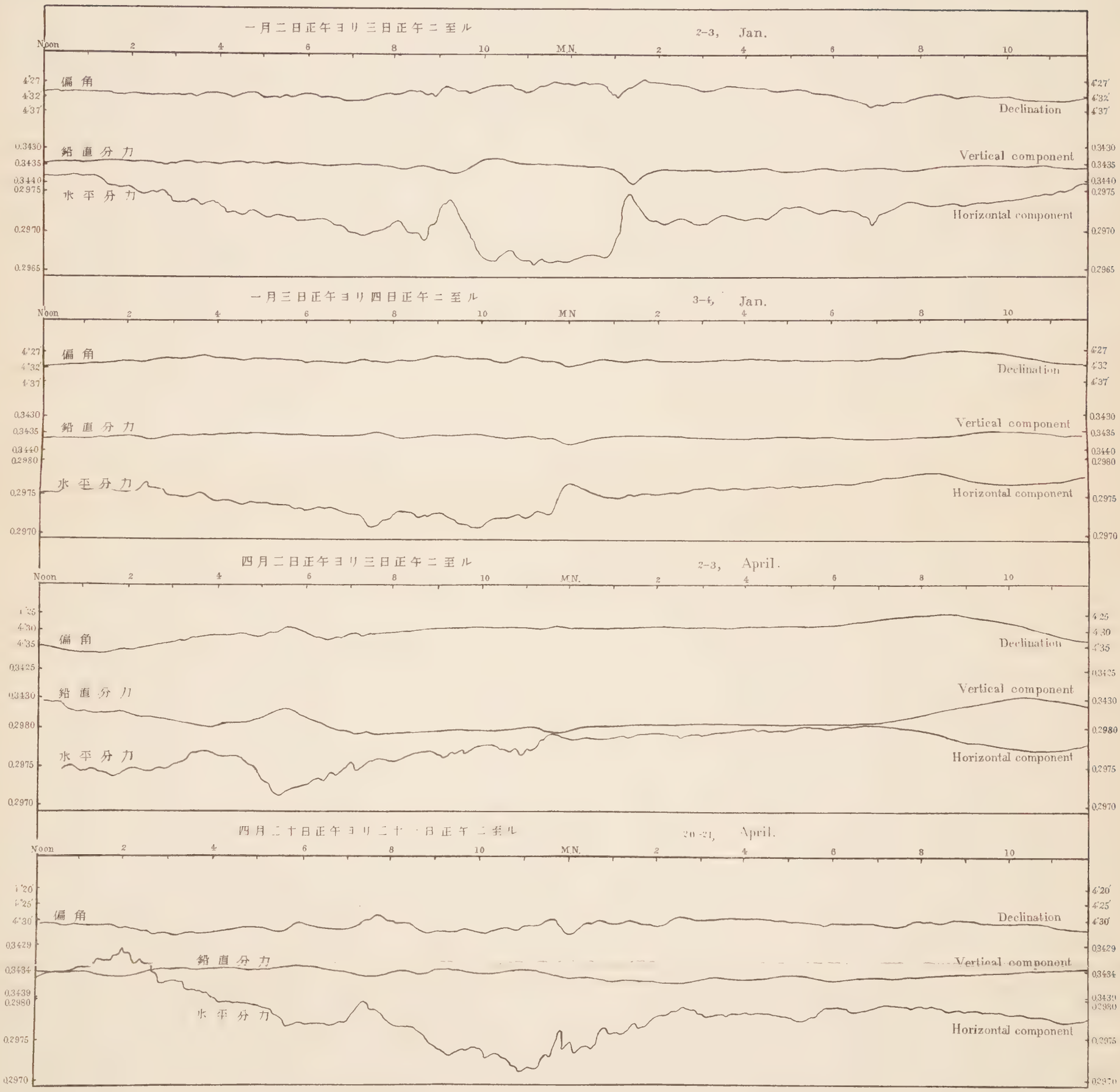


明治三十年

磁氣嵐

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1897

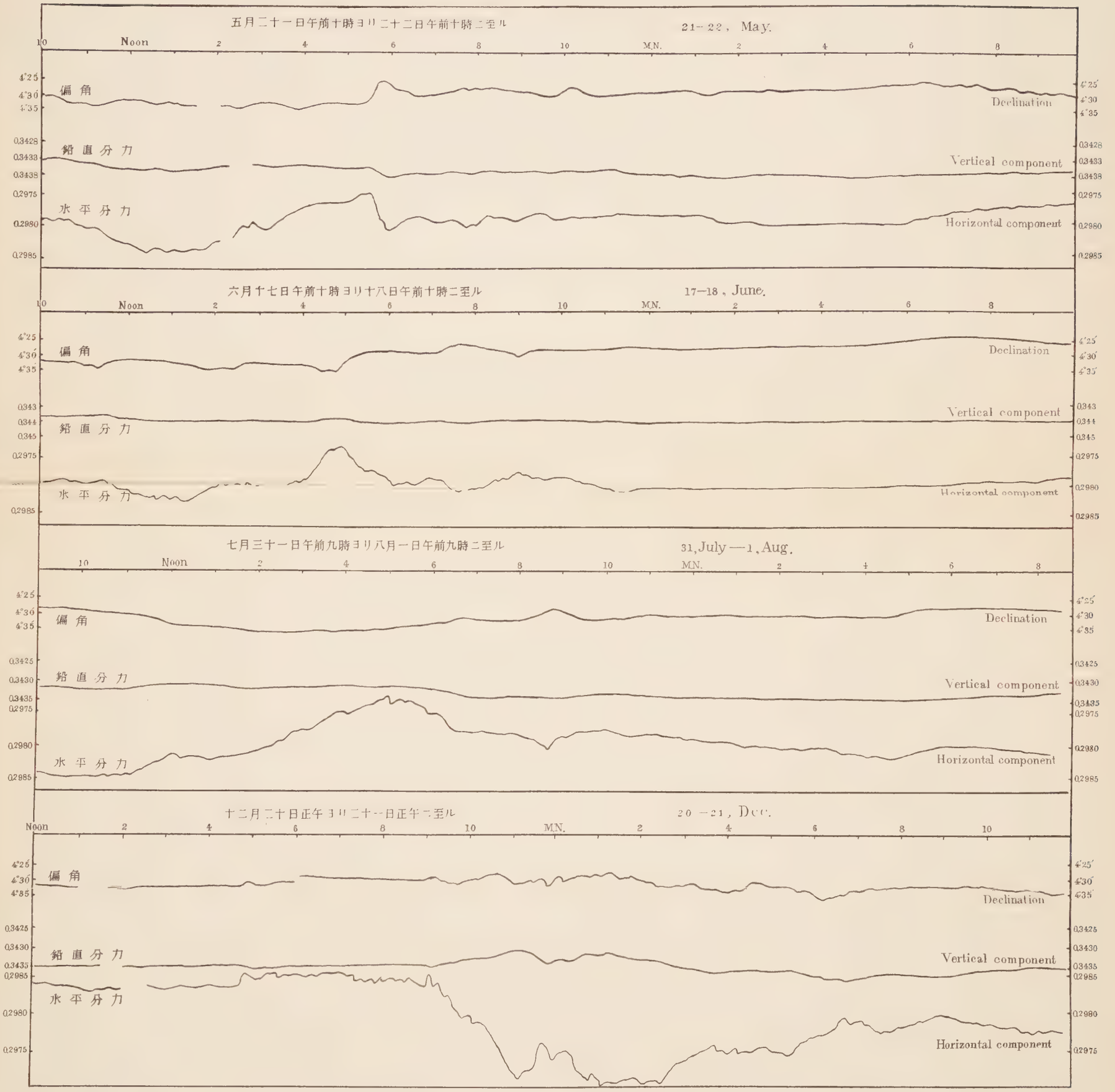


明治三十年

磁氣嵐

PRINCIPAL MAGNETIC DISTURBANCES

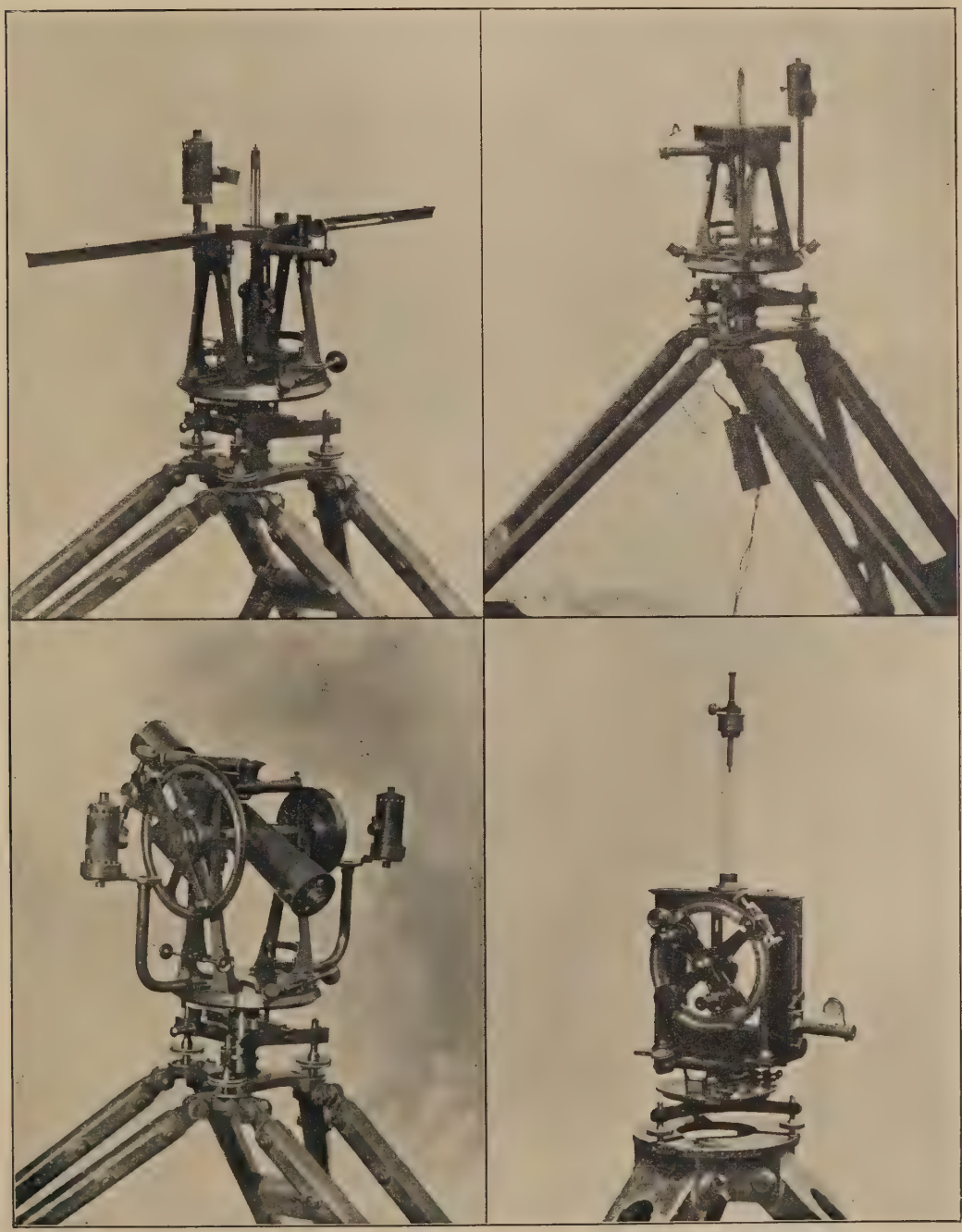
RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1897.



Magnetic Instruments for Absolute Measurement.

Deflection Instrument.

Declinometer.



Theodolite.

Dip and Vibration Instrument.

二月	三、八六
三月	二、九七
四月	三、一三
五月	三、二三
六月	一、七三
七月	一、三六
八月	一、一五
九月	八、三六
十月	一、六一
十一月	二、一三
十二月	二、六九

終リテ尚一言スヘキハ空中電氣ノ曲線ハ一般ニ凹凸ノ甚タシキコトナリ故ニ先ツ平均曲線ヲ畫キ以テ「ポテンシャル」ヲ測ルヲ常トセリ

明治三十年空中電氣觀測

空中電氣ノ「ポテンシャル」ハトムソン及マスカール自記象限電氣計ニヨリテ之ヲ測定ス今左ニ其構造ノ概略ヲ說明セン

電氣計ハ金屬製ノ箱内ニ在リ箱ノ蓋ニハ直立スル管アリテ一本釣リノ糸ヲ支フ又コレニ三個ノ「エレクトロード」アリテ箱内ノ象限及ヒ針ニ接續ス即チ二個ノ「エレクトロード」ハ象限ノ一對ヅヽト結合セラレ其他端ハ三十乃至五十ノ水「セル」ヨリ成ル電池ノ兩端ニ至リ其電地ノ中部ハ地ニ接續セラル第三ノ「エレクトロード」ハ其先端ニ付着セル白金線ニヨリテ箱内ニアル玻璃瓶内ノ硫酸ニ通ス然ルニ針ノ先端ハ白金線ヨリ成リ是レ亦硫酸中ニ沒入スルカ故ニ此針ハ第三ノ「エレクトロード」ニ通スルモノナリ又扇形ノ金屬片ハ針ニ付着シテ象限内ニアリ各一對ノ象限ハ此扇形片ノ「ポテンシャル」カ陰成ハ陽ナルニヨリテ之ヲ引キ或ハ之ヲ斥ク

空中電氣ヲ集ムルニハサー、ウヰリヤム、トムソン氏ノ水滴器ニヨル自記室ノ隣室ニ銅製ノ桶アリ三個ノ玻璃臺上ニ座シ此臺ハ皆硫酸ヲ入レタル玻璃瓶内ヨリ突出スルモノナリ瓶口ニハ眞鍮ノ蓋アリテ之ヲ蔽フ然レトモ之ヲシテ少シモ瓶ニ觸ルヽ所ナカラシム是レ電氣ノ漏洩ヲ防クナリ此桶ヨリ長サ二米ノ管西方ニ突出シテ空中ニアリ其先端(地面ヨリノ高サハ一米七トス)ノ小孔ヨリ水迸出シ直チニ細滴トナリテ落下ス斯クノ如クシテ桶ハ管ノ先端ニ於ケル空氣ト同「ポテンシャル」トナルカ故ニ之ヲ前記第三ノ「エレクトロード」ニヨリテ鏡付キノ針ニ通ズルナリ然ラバ空中電氣ノ變化ニ伴ヒ鏡ハ左右ニ廻轉セラル、カ故ニ此鏡面ニ光線ヲ投射セシメ之ヲ時計仕掛ニヨリテ動カサル、寫眞紙上ニ反射セシメ以テ空中電氣變化ノ曲線ヲ得ヘシ但シ零線ハ電氣計前面ニアル玻璃窓ニヨリテ反射セラル、光線ニテ之ヲ書カシムルヲ得ヘシ

濕氣ノ存在スルコトニヨリテ多少零點ノ移動ヲ免レヌ故ニ日々二回水流ヲ斷チ桶ヲ地面ニツナギ以テ零線ヲ畫カシム又成ルヘクカヽル誤差ヲ避ケンカ爲メニ器械内ノ硫酸ハ殆ント毎週之ヲ新ニス感度ハ毎週五十「セル」ヨリ成ル電池ニヨリ之ヲ試驗ス其一耗ニ對スル値ヲ各月ニ平均スレハ左ノ如シ

午後二時十四分	九、九	三四、九二
午後二時四十分	九、三	四〇、二七
午後三時十三分	九、一	三九、四四
午後三時三十九分	八、九	三八、四七
		平均 四、一六

コ、ニ實驗中一粍ノ變位ハ C.G.S. 單位ノ〇、〇〇〇〇七三一九ニ當ルヲ以テ温度係數ノ絶對値ヲ得ルコト次ノ如シ

	四、三五三
	四、三三三
	四、三二三
	四、三二二

$$4.16 \times 0.0000\,1319 = 0.0003045 \quad \text{(C.G.S. 單位ニテ)}$$

第四　直接讀取リ器械

其構造全ク自記磁力計ニ異ナルナシ故ニコ、ニ重ネテ贅スルノ要ナシ此器械ハ自記器械ニヨリテ得タル結果ヲ時々吟味スルノ用ニ供セリ

第五　磁氣要素日々變化ノ調和的分析

磁氣要素ノ月平均及年平均ノ毎時値ヲ次式ニテ顯ハシ得ルモノトシ總テノ係數ノ値ヲ算定スルニ其結果ハ別表ニ載スルガ如シ

$$f(t) = p_0 + p_1 \cos t + q_1 \sin t + p_2 \cos 2t + q_2 \sin 2t + p_3 \cos 3t + q_3 \sin 3t + p_4 \cos 4t + q_4 \sin 4t.$$

但シ式中 t ハ標準時ヲ角度ニテ顯ハシタルモノ $f(t)$ ハ t ノ時刻ニ於ケル磁氣要素ノ平均値ヲ示スモノナリ

今前式ヲ年平均ニ應用シテ得タル計算値ト觀測値トノ差ノ自乘ノ和ヲ求ムルニ左ノ結果ヲ得タリ但シ偏角ニ於テハ分ヲ單位トシ水平磁力及鉛直磁力ニ於テハ C.G.S. 單位ノ〇、〇〇〇〇〇〇一ヲ以テ單位トナセリ

偏角	〇、〇七三六
水平磁力	七八九、五〇
鉛直磁力	三三九、五七

午後零時三十三分	八、八	四二、三八	四、八二
午後零時五十七分	八、二	四一、五一	五、〇七
午後一時二十三分	七、七	三九、九七	五、一六
午後一時四十三分	七、三	三八、〇八	五、二九
午後二時十四分	一〇、〇	四三、六八	四、三七
午後二時四十分	九、四	四五、七〇	四、八八
午後三時十三分	九、一	四五、七六	五、〇三
午後三時三十九分	八、九	四五、二三	五、〇八
		平均	四、九五

此實驗中一粍ノ變位ハC、G、S、單位ノ〇、〇〇〇〇四一八三ニ當ルヲ以テ温度係數ノ絶對値ヲ得ルコト次ノ如シ

$$4.95 \times 0.00004183 = 0.0002073 \quad (C.G.S.\text{單位ニテ})$$

鉛直磁力計温度係數ノ測定

時刻	温度ノ差(攝氏)	變位(粍)	攝氏一度ニ對スル變位(粍)
午前九時十八分	〇、〇	〇〇、〇	
午前十一時八分	八、六	三三、〇三	三、八四
午前十一時三十三分	八、四	三三、五三	三、九九
午後零時一分	八、三	三二、四四	三、九一
午後零時三十三分	八、六	三七、二七	四、三四
午後零時五十七分	八、四	三七、一七	四、四二
午後一時二十三分	八、一	三五、五七	四、三九
午後一時四十三分	七、六	三三、四二	四、四〇

九月	○、○○○六六二	○、○○○一二六八
十月	○、○○○○六○○	○、○○○○九七七
十一月	○、○○○○六○五	○、○○○○七九三
十二月	○、○○○○六○四	○、○○○一○二○

丙　水平及鉛直磁力計ノ温度係數

自記磁力計室ハ温度不變ナル能ハズ往々ニシテ一日ノ較差殆ント攝氏一度ニ及ブコトアリ而シテ温度ノ增加スルアレハ水平及鉛直磁力計ニ於テハ恰モ二分力ノ減衰セルト同結果ヲ顯ハスヲ以テ先ツ此温度係數ヲ測定シ以テ温度ニ就キテノ補正ヲ爲スコト必要ナリ乃チ三十一年六月コレカ測定ヲナセリ先ツ六個ノ摺鉢ヲ室内ニ分布シコレニテ炭ヲ燃シ以テ室内ヲ暖メタリ而シテ成ル〻ヘク一定ノ温度ヲ保ツコト甚タ必要ナルカ故ニ自記寒暖計ヲ置キ其ノ畫ク所ノ曲線ニ注視シ手ツカラ火勢ヲ斟酌セリ、同時ニ又西室ニアル直接讀取リ器械ニヨリテ磁力ヲ觀測シ其度毎ニ東室温度ノ讀取リヲナセリ温度ハ水平磁力計鉛直磁力計ニ付キタル寒暖計及自記寒暖計ノ示ス所ニヨレリ而シテ此三箇同時ノ讀取リハ其差攝氏〇、四度ヲ超ユルコトナク又實驗中温度ノ變化ハ殆ント二度餘ナリキ、實驗中磁力ノ實際ニ變化スルハ直接讀取リ器械ニヨリテ知ルコトヲ得ルヲ以テ此部分ヲ除去スルヤハ眞ニ温度ノ變化ノミニヨリテ起レル變位ヲ見出スコトヲ得ヘク隨テ温度係數ヲ算定セルコト左ノ如シ

水平磁力計温度係數ノ測定

時刻	温度(攝氏)	變位(粍)	攝氏一度ニ對スル變位(粍)
午前九時十分	○、○	○、○	
午前十一時八分	九、○	四二、五一	四、七三
午前十一時三十三分	八、三	四二、四三	五、一一
午後零時一分	八、四	四一、三八	四、九三

偏角　或ル一定ノ小角タケ偏角計箱ヲ廻轉スルトキハ固定鏡ヨリ反射スル光線ハ寫眞紙面ニ或ル變位ヲ生スヘシ、コレヨリ曲線ニ於ケル縱線若干巨離ニ對スル角度ノ値ヲ見出スコトヲ得ヘシ而シテ其値ハ一粍ニ對シテ一分四七ナリトス但シ系ノ振レノ影響ハ甚タ小ニシテ實際上零ト見做ス

水平磁力　偏角計後部ニ或ル磁石ヲ偏角計磁力ト同高ニシテ之ヲ水平ニ置キ始メハ其北極ヲ東ニ後ニハ之ヲ西ニ置キ偏角變位ノ和ノ半ヲ〝トセヨ次ニ水平磁力計ノ側部ニ此磁石ヲ持チ來ラシ磁力計磁石ト同高ニシ初メハ其北極ヲ北方ニ後ニハ南方ニ向ケ之ニテ生ズル變位ノ和ノ半ヲnトセハ左式ヲ得ヘシ

$$\triangle H = \frac{H \tan \alpha}{n}$$

コ、ニHハ水平磁力ヲ顯ハシ△Hハ單位ノ變位ニ對スル其變リヲ示ス

鉛直磁力　前ニ使用セル磁石ヲ鉛直磁力計ノ後部ニ置キ始メ其北極ヲ上部ニ後ニハ之ヲ下部ニ置キ以テ生シタル變位ノ和ノ半ヲmトセハ左式ヲ得ヘシ

$$\triangle Z = \frac{Z \tan \alpha \cot I}{m}$$

コ、ニIハ傾角、Zハ鉛直磁力ヲ顯ハシ△Zハ單位ノ變位ニ對スルZノ變リヲ示ス

今△H及△Zカ一粍ノ變位ニ對スル値ヲ各月ニ平均スレハ左ノ如シ

	△H(C.G.S.單位ニテ)	△Z(C.G.S.單位ニテ)
一月	〇、〇〇〇五九一	〇、〇〇〇一三三〇
二月	〇、〇〇〇六〇九	〇、〇〇〇一二四九
三月	〇、〇〇〇五七二	〇、〇〇〇〇九〇二
四月	〇、〇〇〇五八二	〇、〇〇〇〇八二〇
五月	〇、〇〇〇六三四	〇、〇〇〇一三三二
六月	〇、〇〇〇六九〇	〇、〇〇〇二三九〇
七月	〇、〇〇〇六九一	〇、〇〇〇一三〇四
八月	〇、〇〇〇六七一	〇、〇〇〇一八二七

會堂內搭頂ノ方位ヲ定メ置キ子午線ノ讀ミハ此方位ノ讀ミヨリ算出ス

第三　磁氣要素自記器械

磁氣要素ノ自記ハマスカール氏自記磁力計ニ由ル今其裝置及推算法ノ概略ヲ述ヘン

甲　器械ノ裝置

偏角計　偏角計ハ金屬箱內ニ在リ箱ノ上部ヨリ直立スル管アリ其上端ヨリ一本ノ絹糸ヲ下ケ之ニ磁石ヲ懸垂ス磁石ニハ其軸ニ直角ニ付着スル鏡アリ又箱ノ底面ニ固定セラル、鏡ノ直立スルアリカクテ此二鏡面ニ投射スル光線ハ反射セラレ時計仕掛ケニテ動サル、寫眞紙上ニ落チ一ハ磁力方向變化ノ曲線ヲ畫キ一ハ定線ヲ畫ク

水平磁力計　其構造偏角計ト大差ナシ但シ此場合ニ於テハ磁石軸ニ平行ノ鏡ヲ付シ之ヲ二本ノ絹糸ニテ懸垂シ水平分力及糸ノ捩レニ依テ起ル二偶力ノ作用ノ下ニ磁軸ヲシテ略ホ東西ノ方向ニ在ラシム其感度ハ二箇ノ懸垂點ノ距離ヲ伸縮シ以テ適當ニナスコトヲ得斯クシテコノ鏡面ヨリ反射セラレタル光線ハ水平磁力變化ノ曲線ヲ畫クヘシ

鉛直磁力計　是レ一ノ磁石天秤ニシテ其中央部ニ孔アリ此孔內ニアル刀ニヨリテ磁石ハ碼磴板上ニ安坐セリ而シテ之ニ付着セル指針ニヨリテ其重心ノ位置ヲ適當ノ所ニ移シ以テ鉛直磁力及重力ニ依テ起ル二偶力ヲ平衡セシメ以テ磁石ハ略ホ水平ノ位置ニ在ラシム其感度ハ水平及鉛直軸上ニ移動スルヲ得ヘキ二箇ノ重ニ依リ自在ニ整理スルコトヲ得此全部金屬箱內ニ置カレ二箇ノ鏡アリ共ニ水平ノ方向ニ在リテ一ハ箱ニ一ハ磁石ニ固定セラル箱蓋中央部ニハ孔穴アリコレニ二等邊直角「プリズム」ヲ置キ其一面ハ水平ニ一面ハ鉛直ノ方向ニ在ラシム故ニ「プリズム」ノ鉛直面ニ投射セル光線ハ鏡面上ニ落チ再ヒ此所ニ反射セラレソレニ由テ鉛直磁力變化ノ曲線及定線ヲ畫カシムルヲ得

乙　推算法

ニ下部ハ經緯儀付屬望遠鏡及ヒ偏角計「コイル」ノ心棒ト等曲率ヲ有スV臺ノ中間ニ於テ棒ハ楕圓狀ノ輪ヲナシソレヨリ磁力計突出ス而シテ此輪ノ前面下部ニハ半圓形ノ溝アリ以テ小望遠鏡ニ依リ磁石付屬ノ鏡ヲ視ルニ障碍ナカラシム二箇ノV溝ニハ各二個ノ「止メ」アリ「フレ」ノ磁石ヲ揚クルコトナク溝内一ノ「止メ」ヨリ他ノ「止メ」ニ迄ラシ以テ中心ヨリ二距離ニ在ルコトヲ得セシム此「止メ」ハ二距離ノ比最モ適當ナル樣ニ定メタルモノナリ

此器械ハ正弦法、正切法ノ何レニモ適ス然レトモ前者ニ依ルヲ便ナリトス而シテ之ヲ使用スルニハ先ツ磁力計臺ヲV臺ニ固定シ經緯儀底面トハ關係ナカラシム其後ノ方法ハ全クキィウ形器械ニ於ケルカ如シ棒ノ温度ハ第二ノ「止メ」ノ兩側ニ在ル寒暖計二箇ヲ以テ計ル磁石ヲV溝内ニテ動カストキハ小ナル刷毛ヲ以テ磁石面幷ニ溝内ノ塵埃ヲ拂フヲ可トス最終ノ「フレ」整理セラレタル時「クロノメートル」ノ時ヲ讀ム振動實驗ハ便宜ニ從ヒ常ニ「フレ」實驗ノ前ニ行フノ慣習ナレハ其初記時刻ニ依テ實驗ノ始ノ時刻ヲ知ルヲ得ヘシフレ」及ヒ振動實驗ニヨリ算出セラレタル水平磁力ハ則チ此二時刻ノ平均時刻ニ對スル其値ナリトス

振動實驗ハキィウ形器械ニ於ケルモノト略ホ等シキ振動箱中ニ於テ之ヲナスコレ他ノ三脚上ニ安置スルカ故ニ磁力計臺ハ天體觀測ヲナスニアラサレハ之ヲ取リ去ルノ要ナシ磁石ハヨク捩レヲ除去セル絹糸ノ先端ニ付ケタル二箇ノ輪ニ掛ケ水平ニ之ヲ懸垂ス次ニ半度位ノ水平振動ヲ磁石ニ與ヘ之ヲ望遠鏡ニテ觀測ス觀測者ハ其中央線カ目盛リノ中央ニ來リタルトキ合圖ヲナシ記者ハ或ル距離ニ在テ其時刻ヲ記入ス温度ハ箱内ニ在ル寒暖計ニ依リ終始共ニ觀測シ其平均ヲ以テ振動實驗中ノ温度トナス

水平分力ヲ算定スルニハ總テ必要ナル補正ヲナス即チ糸ノ捩レ、振動弧ノ補正ハ通常ノ如ク之ヲ施シ時ハ之ヲ平均太陽時ノ秒位ニ變更ス此他感應、剛鉄、磁石、V溝眞鍮棒ノ膨脹、振動實驗及「フレ」ノ實驗ニ於ケル温度差異ノ補正等皆之ヲ施ス振動實驗ハ常ニ「フレ」ノ實驗前ニ之ヲ行フ其第一振動時ヨリ最終「フレ」ノ實驗マテノ時間ハ通例二十分程トス

傾角　傾角ノ觀測ハカセラ製傾角計第十七號ニ依テ之ヲ行フ針ノ磁石ハ電磁「コイル」ヲ用キテ反覆ス一ノ全觀測ヲナスニハ是レ又二十分許ヲ要ス

子午線ハ北極附近ノ恒星或ハ太陽ノ觀測ニ依リ時々測定スコレニ依テ十三四丁ノ距離ニアルニコライ教

「コイル」ノ上下面ノ中央部ニハ穴ヲ穿チ以テ磁力計ヲシテ之ヲ通過シ直立スルヲ得セシム

「コイル」ヲ整理スルニハ次ノ如ク行フベシ先ツ臺及ビ磁力計ヲ經緯儀上ニ安置シ「コイル」ノ心棒ヲY臺ニ載セ此心棒内ノ空虚ヨリ自由ニ懸垂セラレタル鏡ヲ横ニ見Y臺ヲ署ホ東西ノ位置ニ在ラシム斯クシテ「コイル」ヲ水平ニ置キ其兩端ヲ南北ニ向ハシメ磁力計ノ中心ヲ直ホシ目盛リ付キノ小望遠鏡及ヒ「ラムプ」ヲ適當ノ場所ニ置クベシ磁力計臺及ビ其付屬物ハ經緯儀底面ニ固定シ之ヲY臺ト無關係ナラシム隨テ「コイル」ハ全ク他物トハ獨立ニ廻轉スルヲ得磁力計臺ハ適當ニ整理シ目盛リアル數字中或ル便宜ノモノヲ撰ミ磁石ニ付着セル鏡面ヨリ反射セシメ之ヲシテ望遠鏡ノ十文字線ト合一セシムベシ是ニ於テ總テノ用意全ク終ル

次ニ「コイル」ヲ一ノ抵抗箱ニ接續シ以テ乾電池ノ輪道内ニ在ラシム蓋シ抵抗箱ノ兩端ハ電池ノ兩極ニ連續セラレ自在ニ電流ノ方向ヲ變スルコトヲ得始メ「コイル」内ノ電流ニ由テ起ル磁場ヲシテ地磁氣ノ磁場ト大抵同方向ニアラシメヨ磁石ノ急振スルハ容易ニ其然ルヲ示スベシ此場合ニ目盛ノ反射像ハ一般ニ移動スルカ故ニ電流ヲ通シツヽ「コイル」ノ方位ヲ變シテサキノ數字ヲシテ再ヒ十文字線ト合セシムベシ此間磁力計及ヒ望遠鏡ハ全ク固定セラルヽカ故ニ之ニ由テ磁力方向ノ大畧ヲ知ルヲ得次ニ電流ノ方向ヲ變スレハ目盛リノ零ノ位置ハ靜カニ十文字線ノ一方ニ移ルヘシ依テ抵抗ヲ適當ニ入レ磁石振動時ヲシテ地球磁力ノミノ場合ニ於ケル振動時ノ三四倍ナラシメ而シテ再ヒ「コイル」ノ方位ヲ變シサキノ數字ヲシテ十文字線ニ歸ラシム次ニ電流ヲ斷ツモ目盛リノ像移動スルコトナケレハ「コイル」ノ磁軸ハ磁氣子午線内ニ在ルヲ證ス乃チ經緯儀ノ讀ミ取ヲナサハ其方位ヲ知ルヲ得ン次ニ「コイル」ヲ東西ノ方向ニ於テ全ク反對セシメテ同樣ノ事ヲ行ヒ尚ホ「コイル」上下ノ方向ヲ逆ニシ同樣二ケノ讀ミヲナシ都合四回ノ讀ミノ平均ヲ取ル是レ其終始時刻ノ平均時ニ於ケル偏角ヲ與フベシ斯クスルトキハ「コイル」ノ中心ニ於ケル磁氣指力線カ心棒ノ軸トナス角若シ直角ヨリ少シク異ナルコトアルモ又ハ「コイル」ノ中心ト磁石ノ中心ト多少合一セサルモ此等ニヨリテ生スル誤差ハ全ク打消サル、ナリ通常此全觀測ヲナスニハ四五分ニテ足レリ

水平磁力　水平磁力ノ測定ニハ偏角計ヲ除去シ其代リニ「フレ」ノ棒ヲ置カサルベカラス此棒ハ眞鍮製ノモノニシテ其上面兩側部ニ各一箇ノV形ノ溝ヲ備フ棒ノY臺ニ在ルヘキ部分ハ半圓柱狀ニシテ上面ハ平カ

明治三十年磁力觀測

第一　磁力觀測所

磁力觀測所ハ中央氣象臺内ニ在リ海拔二十一米ニシテ東經百三十九度四十五分北緯三十五度四十一分ニ位ス明治二十三年創メテ當觀測所ノ設立アリ尋テ三十年七月之カ再建ヲナセリ家屋ハ木造ヨリ成リ總テ鐵器ヲ用ヒサランコトニ注意シ釘ノ如キ皆銅製ノモノヲ採用セリ觀測室ハ地下ニアリテ南北ノ方向ニ於ケル階段ニヨリテ東西ノ二室ニ分タレ東部ニハ自記磁力計西部ニハ直接讀取リ器械ヲ据付ケタリ

第二　磁氣要素絶對値ノ測定

絶對値測定ハ毎月兩三日之ヲ行ヒ水平分力及ヒ傾角(伏角)ハ通例三四回之ヲ測定ス偏角(方位角)ハ數次之ヲ觀測シ其一日中ノ變化ヲ知了スルニ足ラシム而シテ偏角及ヒ水平分力ノ測定ニハ田中舘教授ノ新案ニ係ル器械ヲ用ユ是レ「プロシーディングス、オブ、ゼ、ローヤル、ソサイティー、オブ、エヂンバラ」千八百八十四年―千八百八十六年)及ヒ帝國大學紀要(卷ノ二、第三)教授ノ論文ニ載セテ詳ナリ依テ今重モニ此等ノ論文ヲ拔萃シテ其構造及ヒ觀測方法ノ概略ヲ說明セン

偏角　偏角計ハ通常天體觀測ニ使用スル經緯儀上ニ安置ス磁力計臺ハ三脚ニテ經緯儀底面ニ附着セラレ其臺ノ中央ヨリ下部ニ突出セル螺旋ニ由リ隨意ニ經緯儀底面ニ或ハ其Y臺ニ固定スルヲ得鏡付キノ望遠鏡及ヒ「ラムプ」之ニ備付ケラル

磁力計箱ハ此臺上ニ置カレ其上部ニ四箇ノ螺旋アリテ水平ヲ直ホシ又臺ノ鉛直側部ニ在ル四箇ノ螺旋ニテ中心ヲ直ホスコトヲ得磁石ハ小ナル内空圓柱狀ノモノニシテ之ニ直角ニ一ノ鏡ヲ付セリ此鏡及ヒ磁石ハ「アルミニユム」ノ棒ニ着ケラレ棒ノ下端廣クシテ必要ノ場合ニハ箱ノ下部ニアル小ナル萬力ニ由リ之ヲ安全ニ咬ヘ置クコトヲ得而シテ磁石ハ蜘蛛ノ巢ヲ以テ懸垂ス

此偏角計ノ特相トモ云フヘキハ銅製ノ框ニ纏付セル「コイル」ニシテ其中央部ニハ空所アリ其側面ノ中央ヨリ「コイル」ノ軸ニ直角ニ一箇ノ心棒突出ス此心棒ハ内空ニシテ經緯儀付屬望遠鏡ノ廻轉軸ト同直經ヲ有ス

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TOKIO, JAPAN. 6 Nov 1902

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